## **Upgrading From 1.0.1 to 1.1**

To upgrade from DSpace 1.0.1 to 1.1, follow the steps below. Your *dspace.cfg* does not need to be changed. In the notes below [dspace] refers to the install directory for your existing DSpace installation, and *[dspace-1.1-source]* to the source directory for DSpace 1.1. Whenever you see these path references, be sure to replace them with the actual path names on your local system.

## **Upgrade Steps**

- 1. Take down Tomcat (or whichever servlet container you're using).
- 2. We recommend that you upgrade to the latest version of PostgreSQL (7.3.2). Included are some notes to help you do this (see the postgres-upgrade-notes.txt file). Note you will also have to upgrade Ant to version 1.5 if you do this.
- 3. Make the necessary changes to the DSpace database. These include a couple of minor schema changes, and some new indexes which should improve performance. Also, the names of a couple of database views have been changed since the old names were so long they were causing problems. First run psql to access your database (e.g. psql -U dspace -W and then enter the password), and enter these SQL commands:

```
ALTER TABLE bitstream ADD store number INTEGER;
UPDATE bitstream SET store_number = 0;
ALTER TABLE item ADD last_modified TIMESTAMP;
CREATE INDEX last_modified_idx ON Item(last_modified);
CREATE INDEX eperson_email_idx ON EPerson(email);
CREATE INDEX item2bundle_item_idx on Item2Bundle(item_id);
CREATE INDEX bundle2bitstream_bundle_idx ON
       Bundle2Bitstream(bundle_id);
CREATE INDEX dcvalue_item_idx on DCValue(item_id);
CREATE INDEX collection2item_collection_idx ON
        Collection2Item(collection_id);
CREATE INDEX resourcepolicy_type_id_idx ON ResourcePolicy
       (resource_type_id,resource_id);
CREATE INDEX epersongroup2eperson_group_idx on
       EPersonGroup2EPerson(eperson_group_id);
CREATE INDEX handle handle idx ON Handle(handle);
CREATE INDEX sort_author_idx on ItemsByAuthor(sort_author);
CREATE INDEX sort_title_idx on ItemsByTitle(sort_title);
CREATE INDEX date_issued_idx on ItemsByDate(date_issued);
DROP VIEW CollectionItemsByDateAccessioned;
DROP VIEW CommunityItemsByDateAccessioned;
CREATE VIEW CommunityItemsByDateAccession as SELECT
        Community2Item.community_id, ItemsByDateAccessioned.* FROM
        ItemsByDateAccessioned, Community2Item WHERE
        ItemsByDateAccessioned.item_id = Community2Item.item_id;
CREATE VIEW CollectionItemsByDateAccession AS SELECT
        collection2item.collection_id,
        itemsbydateaccessioned.items_by_date_accessioned_id,
        itemsbydateaccessioned.item_id,
        itemsbydateaccessioned.date_accessioned FROM itemsbydateaccessioned,
        collection2item WHERE (itemsbydateaccessioned.item_id =
        collection2item.item_id);
```

4. Fix your JSPs for Unicode. If you've modified the site 'skin' (jsp/local/layout/header-default.jsp) you'll need to add the Unicode header, i.e.:

```
<meta http-equiv="Content-Type" content="text/html;
    charset=UTF-8">
```

to the <HEAD> element. If you have any locally-edited JSPs, you need to add this page directive to the top of all of them:

```
<%@ page contentType="text/html;charset=UTF-8" %>
```

(If you haven't modified any JSPs, you don't have to do anything.)

5. Copy the required Java libraries that we couldn't include in the bundle to the source tree. For example:

```
cd [dspace]/lib
cp *.policy activation.jar servlet.jar mail.jar
        [dspace-1.1-source]/lib
```

6. Compile up the new DSpace code, replacing [dspace]/config/dspace.cfg with the path to your current, LIVE configuration. (The second line, touch 'find .', is a precaution, which ensures that the new code has a current datestamp and will overwrite the old code. Note that those are back quotes.)

```
cd [dspace-1.1-source]
touch `find .`
ant
ant -Dconfig= [dspace]/config/dspace.cfg update
```

7. Update the database tables using the upgrader tool, which sets up the new > last\_modified date in the item table:

```
Run [dspace]/bin/dsrun org.dspace.administer.Upgrade101To11
```

8. Run the collection default authorization policy tool:

```
[dspace]/bin/dsrun org.dspace.authorize.FixDefaultPolicies
```

9. Fix the OAlCat properties file. Edit [dspace]/config/templates/oaicat.properties. Change the line that says

```
Identify.deletedRecord=yes
```

To:

```
Identify.deletedRecord=persistent
```

This is needed to fix the OAI-PMH 'Identity' verb response. Then run [dspace]/bin/install-configs.

10. Re-run the indexing to index abstracts and fill out the renamed database views:

```
[dspace]/bin/index-all
```

11. Restart Tomcat. Tomcat should be run with the following environment variable set, to ensure that Unicode is handled properly. Also, the default JVM memory heap sizes are rather small. Adjust -Xmx512M (512Mb maximum heap size) and -Xms64M (64Mb Java thread stack size) to suit your hardware.

```
JAVA_OPTS="-Xmx512M -Xms64M -Dfile.encoding=UTF-8"
```