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Banner General File Upload Utility Handbook

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Introduction

The File Upload Utility allows you to upload files from your computer to the Banner database server for use as input to jobs run via Job Submission. The File Upload Utility eliminates the need for you to FTP files to Banner and have an account on the Banner server.

Overview

File Upload Utility - GUAUPLP

The File Upload Utility (GUAUPLP) form allows you to specify the file and file location that you would like to upload to a specified directory on the Banner database server.

Field	Description
Description	The description of the file that will be uploaded.
Directory	The Oracle directory on the Banner database server where the file will be uploaded.
Directory Path	The directory path on your local machine where the file to be uploaded can be found. Display only.
File Name	Name for the uploaded file. If no name is specified, then the name of the uploaded file will have the same as the name of the file on your computer.
Convert EOL	Converts End Of Line (EOL) characters such as CR (carriage return) and LF (line feed).

Field	Description
UNIX File Permissions	<p>Unix Read/Write/Execute file permissions in three digit octal notation.</p> <ul style="list-style-type: none"> • Digit 1 represents read, write, execute permissions for User • Digit 2 represents read, write, execute permissions for Group • Digit 3 represents read, write, execute permissions for Other <p>Here is a list of the meanings for individual octal digit values:</p> <ul style="list-style-type: none"> • 0 --- no permission • 1 --x execute • 2 -w- write • 3 -wx write and execute • 4 r-- read • 5 r-x read and execute • 6 rw- read and write • 7 rwx read, write, and execute <p>Below are some examples showing the permissions for user, group, and other as represented by octal digits:</p> <ul style="list-style-type: none"> • "777 = "-rwxrwxrwx" = rwx for owner, rwx for group, rwx other • "754 = "-rwxr-xr--" = rwx for owner, r-x for group, r-- for other • "124 = "---x-w-r--" = x for owner, w for group, r for other <p>Note: The default permission when a file is uploaded is "-rw-r--r-", or 644 in three digit octal notation.</p> <p>Note: The OWNER of the file is Oracle and the GROUP of the file is DBA. The Other setting is the permission that you should modify if you wish to edit or delete the file once it has been uploaded.</p> <p>Note: UNIX file permissions may not be modified for file names that use spaces. If you wish to change the permissions on a file that uses spaces, you must rename the file and remove the spaces.</p>
User ID	The user ID of the person who entered the data or changed it last. Display-only.
Activity Date	The date the information was entered, or was last changed. Display-only.

GURUPLD table

The GURUPLD table, delivered with Banner General, is used by Oracle to transfer the contents of a user file to a BLOB. The definition of this table is dictated by Oracle and even though it has a standard Banner name, the columns are pre-determined and may not be altered. Therefore, the table will not have some standard Banner columns, including the following:

- GURUPLD_USER_ID
- GURUPLD_DATA_ORIGIN
- GURUPLD_ACTIVITY_DATE

Additionally, the column names will not be prefaced by the name of the table.



Note: The GURUPLD table cannot be used in Multi-Entity Processing nor may it be run thru the Banner Database Extension Utility (DBEU).

Configuration

To configure the File Upload Utility, perform the following steps:

Update the DAD document table

Update the DAD Document Table to specify the GURUPLD table, by replacing `www_documents` with `GURUPLD`.



Note: This assumes that the DAD already exists and is working for Self-Service Banner.



Note: In the case where there may already be a table in use and the DAD cannot be updated to use GURUPLD, an override exists on the Crosswalk Validation (GTVSDAX) form that can be used to point to the current table. In this case, you will need to update the External Code to the existing table name as shown below:

Internal	
Code:	TABLE
Sequence:	[blank]
Group:	GURUPLD
External Code:	GURUPLD
Description:	Override table for GURUPLD
Translation Code:	[blank]
Reporting Date:	[blank]
System Required:	<input checked="" type="checkbox"/>
Activity Date:	04-MAY-2011

Depending on your Oracle version, update the DAD using one of the following procedures:

- [“OAS 10.1.2.x” on page 8](#)
- [“OAS 10.1.3.x” on page 9](#)
- [“OAS 11g Oracle Fusion Middleware \(FMW\)” on page 10](#)

OAS 10.1.2.x

To update the DAD using OAS 10.1.2.x, perform the following steps:

1. Login to the EM console.
2. Select **HTTP_Server**.
3. Select **Administration**.
4. Select **PL/SQL Properties**.
5. Under the DADs section locate the correct data for this database instance.
6. Click the DADs name.

7. Select **Security, Document, Alias and Session**.
8. In the Document Access Information section, enter Document Table = GURUPLD.
9. Click **Apply**.
10. Restart the HTTP_Server.

OAS 10.1.3.x

To update the DAD using OAS 10.1.3.x, perform the following steps:

1. Edit the DAD configuration dads.conf file located in `$ORACLE_HOME/Apache/modplsql/conf` and add the following line within the location section for the DAD being updated:

```
PlsqlDocumentTablename GURUPLD
```

2. Save the file.
3. Restart the HTTP Server for changes to take effect.

```
$ORACLE_HOME/opmn/bin/opmnctl restartproc ias-  
component=HTTP_Server
```

For example:

```
<Location /dad_name>  
  SetHandler pls_handler  
  Order allow,deny  
  Allow from All  
  AllowOverride None  
  PlsqlDatabaseUsername www_user  
  PlsqlDatabasePassword password  
  PlsqlDatabaseConnectionString Hostname:Port:SID SIDFormat  
  PlsqlAuthenticationMode Basic  
  PlsqlNLSLanguage AMERICAN_AMERICA.AL32UTF8  
  PlsqlDefaultPage homepage.htm  
  PlsqlBeforeProcedure twbklist.p_main  
  PlsqlDocumentTablename GURUPLD  
  PlsqlAlwaysDescribeProcedure Off  
  PlsqlErrorStyle DebugStyle  
</Location>
```

OAS 11g Oracle Fusion Middleware (FMW)

To update the DAD using 11g(FMW), perform the following steps:

1. Log on to the Enterprise Manager console.
2. Expand Web Tier and click **Ohs1**.
3. From the Oracle HTTP Server drop down menu, select **Administration > Advanced Configuration > dads.conf > Go**.
4. Add the following line within the location section for the DAD being updated:

```
PlsqlDocumentTablename GURUPLD
```
5. Click **Apply**.
6. From the Oracle HTTP Server drop down menu, select **Control > Restart**.

Configure DAD URL

Access the General User Preferences Maintenance (GUAUPRF) form in Banner and specify the appropriate URL in the **User Value** field to point to the URL where this DAD is associated.



Note: If you use a DAD on the INB server instead of the normal SSB server to handle Job Submission output, the style sheets will be missing and the web pages will not display correctly. To resolve this issue you can either change this URL to point to the SSB server or copy the CSS files from the SSB server to the INB server.

Create BAN_GUAUPLP Oracle Directory

You must create an Oracle DIRECTORY named BAN_GUAUPLP_<user defined> that points to an existing directory that is accessible by Job Submission. If Job Submission cannot access this directory, uploaded files would not be able to be used by Job Submission.



Note: Many Job Submission processes only accept a combined path and file name length of up to 30 characters, so it is recommended that the path not exceed 30 characters.

WTAILOER needs to be granted access to this directory as well.

The command to create the directory, as the BANINST1 user, and assign access uses the following format:

```
SQLPLUS BANINST1/PASSWORD
```

```
CREATE OR REPLACE DIRECTORY BAN_GUAUPLP_UPLOAD_DIR AS '/u01/  
banner/data/upload' ;
```

```
GRANT READ, WRITE ON DIRECTORY BAN_GUAUPLP_UPLOAD_DIR to  
BAN_DEFAULT_Q, BAN_DEFAULT_M, WTAILOR;
```

Grant WWW_USER access to GURUPLD

The GURUPLD table is delivered with access to BANINST1, but access must also be given to the account associated with the DAD, for example WWW_USER, using the following format:

```
GRANT SELECT, INSERT, UPDATE, DELETE, REFERENCES ON GURUPLD TO  
WWW_USER;
```



Note: If the GTVSDAX entry overrides the GURUPLD table name, please ensure that BANINST1, in addition to WWW_USER, is granted the same privileges to the override table.

Create and grant access to directory objects

To give users access to the directory within Banner, the directory objects must be created and then users must be given access to the directory objects, as special objects, using the Oracle/Banner Security Maintenance (GSASECR) form.

1. Create the directory object using the Objects tab on the Oracle/Banner Security Maintenance (GSASECR) form.

Object	Current System Version	System	Default Role	Owner	Comments
BAN_GUAUPLP_UPLOAD_DIR	8.5	G	BAN_DEFAULT_M	PUBLIC	Special object for File Upload

2. Add this object to a security group, class, or individual user as required.

Objects granted directly to the User or Class

Object Name	Role Name
BAN_GUAUPLP_UPLOAD_DIR	BAN_DEFAULT_M

3. Make sure the user testing this process (for example saisusr) is enrolled in BAN_GENERAL_C class.

File Upload Process

After completing the configuration steps, the upload directory can be specified on the File Upload Utility (GUAUPLP) form.

Specify the upload directory

To specify the upload directory, perform the following steps:

1. Login to Banner as BANSECR and open the File Upload Utility (GUAUPLP) form.
2. Insert the appropriate data on the form. For example:

Description = Advancement Uploads

Directory = BAN_GUAUPLP_UPLOAD_DIR

Directory Path = /u01/banner/data/upload

File Name = Name for the uploaded file. If no name is specified, then the name of the uploaded file will have the same as the name of the file on your computer.

Convert End of Line = Checked. This selection will convert End Of Line (EOL) characters such as CR (carriage return) and LF (line feed).

Test the Upload Process



Note: BAN_DEFAULT_M access to GUAUPLP is delivered as part of the BAN_FULL_SECURITY_C class and GUAUPLP has been added to the *SECURITY menu, however, access, as determined by internal procedures, may be granted to additional users responsible for the setup. This form is not restricted to only BANSECR users.

GUAUPLP has also been added to the BAN_GENERAL_C class with BAN_DEFAULT_Q since access is required to be called from the Option menu on GJAPCTL. If a user who only has BAN_DEFAULT_Q goes to the form directly, they will only see the directories for which they have been granted access.



Note: Web Tailor information text for DEFAULT may be added as desired for each of the following pages, `twbkupld.p_upload`, `twbkupld.p_uploadcommit`, and `twbkupld.p_upload_start`.

To upload a file, perform the following steps:

1. Access the File Upload Utility (GUAUPLP) form and click **Manual File Upload**.



Note: You may also upload a file by selecting **Options > Upload File [GUAUPLP]** on the Process Submission Controls (GJAPCTL) form.

2. Select the type of upload that you will be performing, and click **Continue**. Only the options for which security access has been granted will be displayed.

The screenshot shows a web browser window titled "File Upload Process" with the SUNGARD UNIVERSITY logo. The main content area is titled "File Upload Process" and contains the text "Please select file type to upload:" followed by a dropdown menu. The dropdown menu is open, showing three options: "Advancement Uploads", "Student Grades Mass Update", and "Student Test Scores". A "Continue" button is visible to the right of the dropdown. At the bottom left, it says "RELEASE: 8.5".

3. Browse for a file to upload and click **Submit File**.

The screenshot shows the same web browser window. The text "Please select file to upload:" is followed by a text input field containing the file path "C:\aaa_upload.txt" and a "Browse..." button. A "Submit File" button is located below the input field. At the bottom left, it says "RELEASE: 8.5".

The file will be uploaded from your computer to the specified directory on the database server using either the uploaded file name or the file name as defined on GUAUPLP.

4. Close the browser window to return to the form where you originated the download.

If you look in the location `' /u01/banner/data/upload '` you should see the file that you just uploaded.