

User Guidance for Migrating Projects from FEMA's DFIRM Tools

Background and Purpose

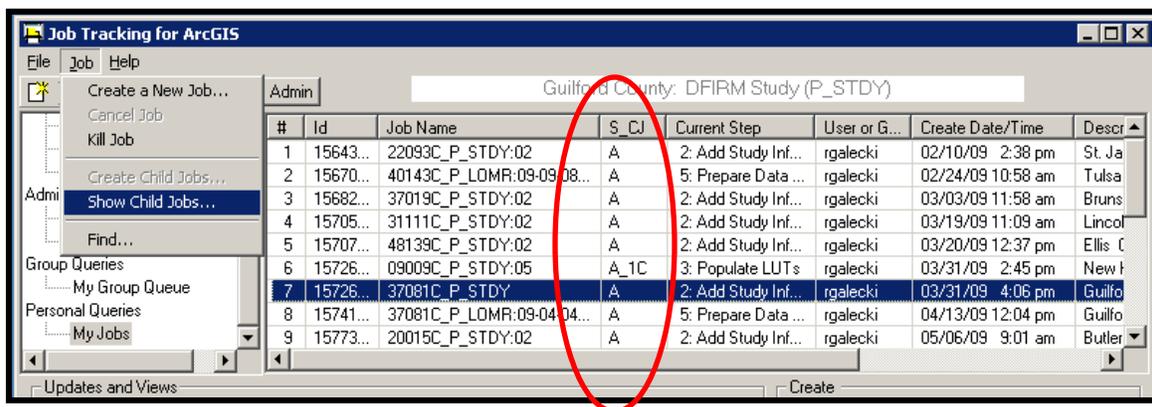
This document is designed to provide FEMA mapping partners with technical information related to the planned decommissioning of the DFIRM Tools on July 31, 2010. In general, the steps for migrating projects out of the DFIRM Tools are:

- Reconcile and post child jobs to the parent version
- Batch validate the data
- Export the data
- Load data into ArcGIS or other tools
- Check the data
- Close the JTX job

Reconcile and Post Child Jobs

The first step to exporting data from the DFIRM Tools is to make sure that all child jobs are posted and reconciled to the parent job. A child job is a copy of the information from the parent, or original, version of the data. If this is not done, work performed in a child version may be lost.

Some JTX workflow steps require that a child job be created in order to proceed. When the **Run current step** option is selected, the child job is opened for editing. A single parent job may have many child jobs where edits to the information can be performed. You can check the JTX control screen to find out if a parent job has any child jobs. To do so, click on the job you are interested in. In the top menu next to File click **Jobs** and select **Show Child Jobs**. If child jobs exist, JTX will display a list.



After edits have been performed within a child job, the changes must be recombined with the parent version of the data – this is called *posting*. In order to post, the edited data must first be reconciled with the original data to ensure that the data has only been edited once. If the data has been edited multiple times, this will need to be addressed and

corrected before the data from the child job will merge with and update the data in the parent version.

The **Reconcile** and **Post** activities are available on the Versioning Toolbar in the DFIRM Tools. You must start an edit session to use these commands.



Reconcile and Post

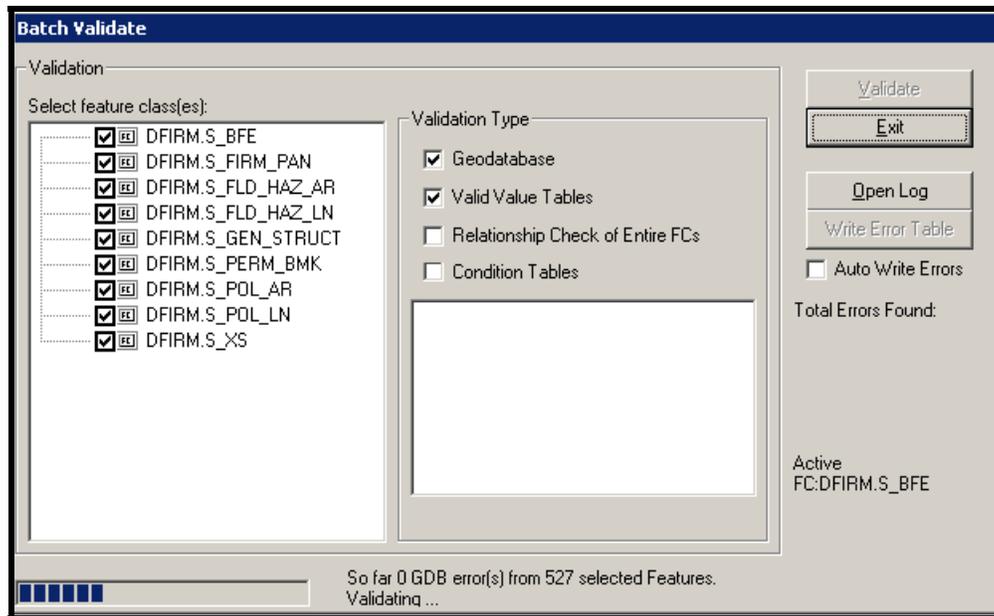
Batch Validate the Data

Once all of the child jobs have been posted to the parent job review the data using the Batch Validate Tool to ensure that there are no problems with the attribution. This tool is available on the PLTS GIS Data ReViewer toolbar.



Batch Validate Tool

Selecting this tool will open the dialog box shown below. Any errors found during this review will be listed in the error logs that are created by the tool.



Topology errors should be checked using the standard validate topology tools available on the Topology toolbar, which is included with the ArcGIS application. The topology rules are built into the DFIRM Tools environment so once the selected validate topology tool has completed its analysis, the Error Inspector tool will provide a listing of the errors that were discovered. These errors can be corrected using the standard editing tools.

Export the Data

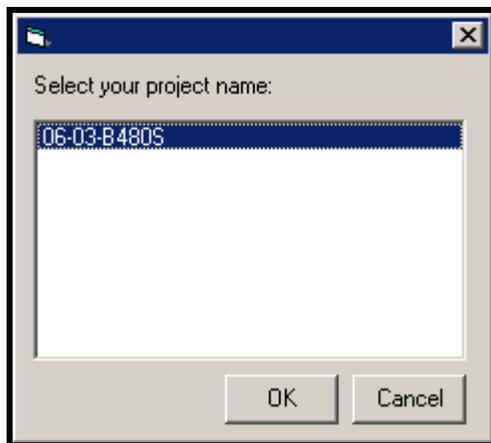
Once the data has been validated, the user has two options for exporting their data from the DFIRM Tools environment. The first choice is to use the Export to PGDB tool. The second is to use the Database Exporter tool.

The Export to PGDB tool allows the user to export all study data to a personal geodatabase (PGDB). All of the feature classes, data tables, and annotation will be exported to a single PGDB. To export data using the Export to PGDB tool:

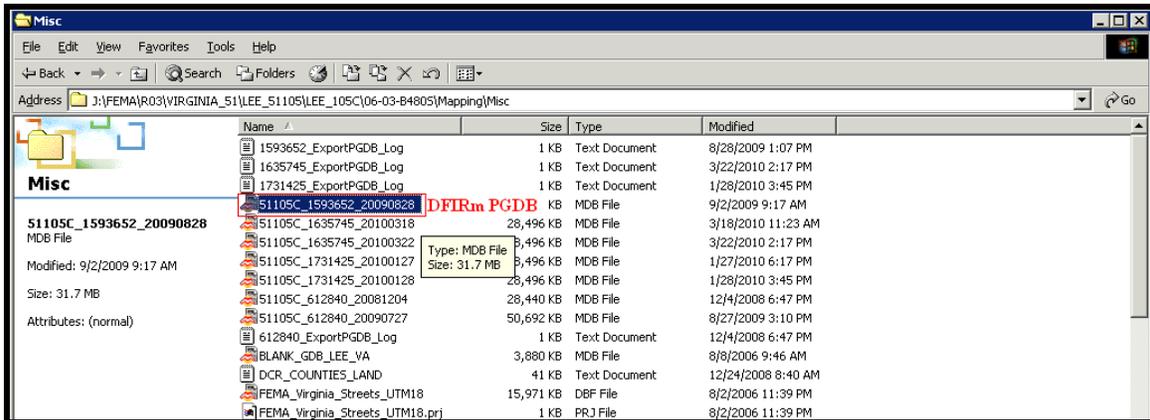
1. Click on the **DFIRM Export to PGDB** tool on the DFIRM Layer Loader toolbar



2. Select the project case number from the dialog box that comes up then click **OK**



3. The export will start. The lower left corner of the screen will show the progress of the export. After the export finishes, the PGDB will be located in the MISC folder on the MIP for that case number. It will be named DFIRMID_JOBID_DATE

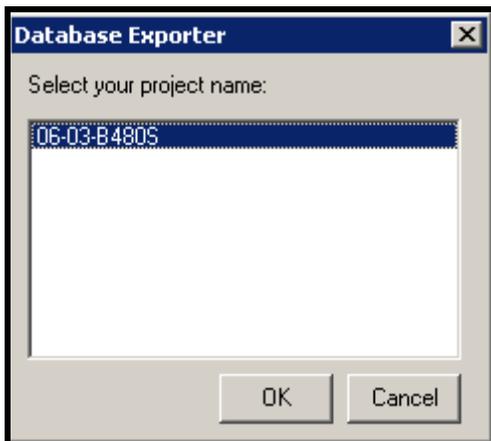


The other option for exporting data from the DFIRM Tools environment is to use the Database Exporter. This tool can export data to files in draft, preliminary or final schema that are defined in Appendix L of FEMA’s *Guidelines and Specifications for Flood Hazard Mapping Partners*. The Database Exporter Tool will create .shp, .e00, and .mif files from the SDE database. IT WILL NOT EXPORT YOUR ANNOTATION OR CREATE A PERSONAL GEODATABASE. To use the Database Exporter tool:

1. On the Database Exporter toolbar select the **Draft, Preliminary** or **Final** export button



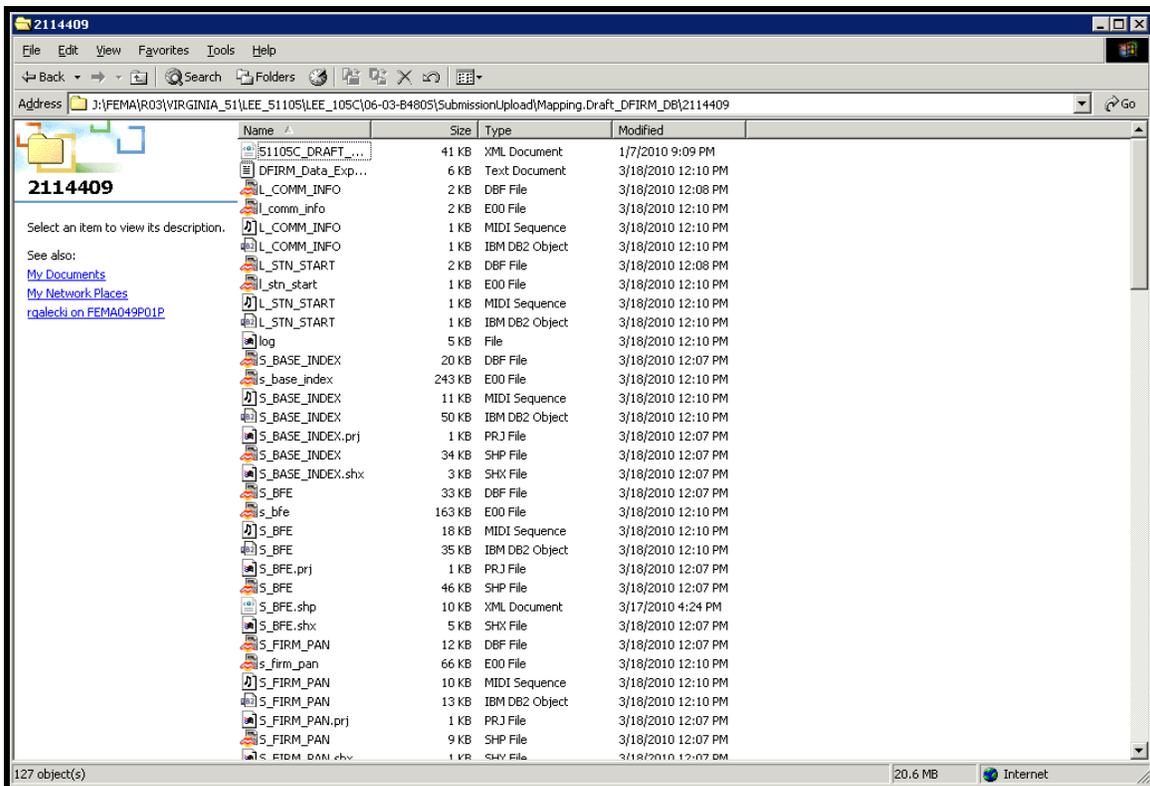
2. Click on the tool that corresponds to the current step in the JTX workflow. Select the appropriate case number from the Database Exporter dialog box and click **OK** to proceed



- A message box will appear that provides an estimated time for completion of the export process. Click **OK** to close this message box.



- Navigate to your case number in the MIP. An export log was generated and placed in a folder for the selected case number. This log file indicates whether the export process finished successfully. The final output will be located under the Submission Upload directory for the case number. It will be located in the Draft, Prelim or Final folder, depending on the type of export specified.



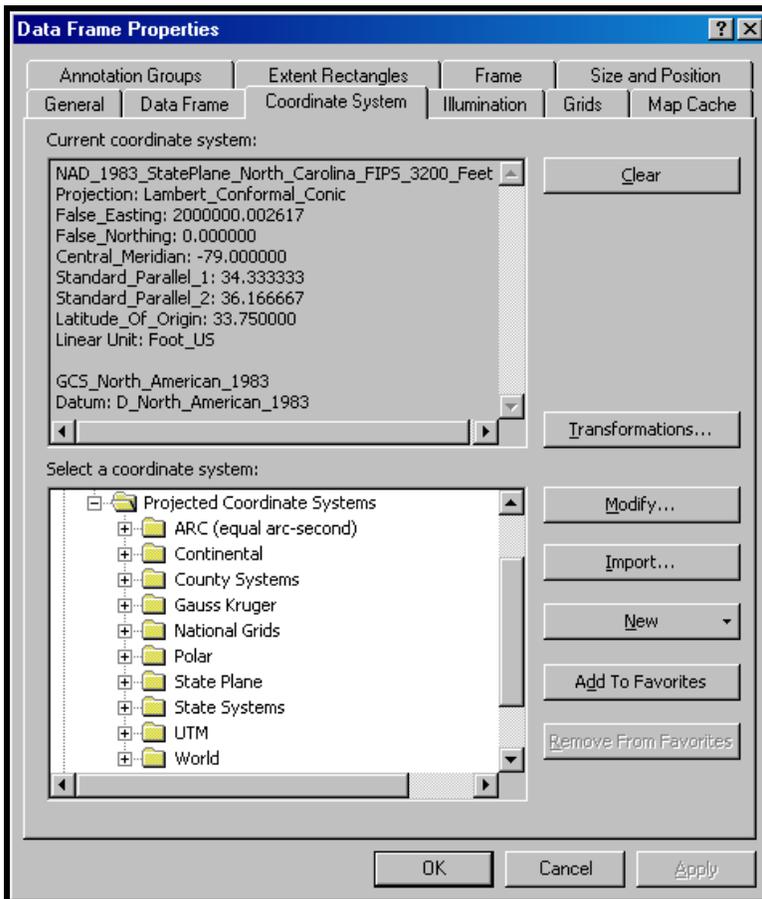
Load the Data into Other Tools

The data needs to be loaded into ArcGIS or other tools in order to complete the flood mapping project. There are some resources available on the MIP that will allow studies to be completed using the functionality within ArcGIS. These resources include a template .mxd file, symbology files for each GIS layer, font files, and the font files for items that have been labeled using Label-EZ.

To use the font file for the Label-EZ Custom Symbols, copy the font file named `labelezcustom.ttf` to the `C:\WINDOWS\Fonts` directory. The font will then be available for use in ArcMap. Please read the Label-EZ Readme file before using this font.

Open the template .mxd file that is available on the MIP. This .mxd contains the basic FIRM panel layout and includes neatlines, notes to users, legend, and most of the title block. Some of the symbols for the title block may need to be repointed to the symbols that are also included in the zip file (DHS logo and title block frame). The style files that contain the symbology should be loaded into ArcMap so that the appropriate symbols can be associated with the proper features.

Set the coordinate system in the data frame in ArcMap to match the local coordinate system of the study you are working on which is listed in the `Study_Info` table.



The geodatabase that was exported from the DFIRM Tools will be in geographic coordinate system referenced to NAD 83. While ArcMap project on-the-fly capability will show this data in the coordinate system defined in the data frame, it's recommended that the features in the geodatabase be projected to the coordinate system for that project. This will need to be done in order to create the final DFIRM database that will be delivered to the Map Service Center (MSC).

Check the Data

Once the data has been exported, it should be checked to ensure that:

- The data has not been shifted spatially
- The data is in the same projection that is specified in the Study_Info table
- That single features have not been exploded into multiple features
- If the annotation has been exported also check
 - Placement of annotation
 - Symbology of the annotation

Close the JTX Job

1. Note Id of your JTX job which can be found in the JTX Job Tracking for ArcGIS window from your queue. Look at the Id column.

#	Id	Job Name	S_CJ	Current Step	User or...	Create Date/Time
1...	1597093	51107C_P_LOMR:09-03-13...	Q	23: JTX Reconcile and Post	ADMIN	10/01/09 2:39 pm
1...	1598289	48167C_P_STDY	Q	1: Create Version	rgaines	10/12/09 12:05 pm
1...	1598290	48167C_P_STDY:02	Q	1: Create Version	rgaines	10/12/09 12:10 pm
1...	1598321	JTX Job ID Column	Q	1: Create Version	rgaines	10/12/09 1:05 pm
1...	1598412	4209bL_P_LUMH:US-US-17...	Q	23: JTX Reconcile and Post	ADMIN	10/14/09 9:02 am
1...	1598689	13117C_P_LOMR:09-04-54...	Q	23: JTX Reconcile and Post	ADMIN	10/16/09 9:37 am
1...	1599187	12057C_P_LOMR:09-04-60...	Q	23: JTX Reconcile and Post	ADMIN	10/23/09 11:12 am
1...	1612370	05007C_P_STDY:02	Q	42: JTX Reconcile and Post	ADMIN	10/30/09 6:31 am
1...	1624866	08035C_P_LOMR:09-08-09...	Q	23: JTX Reconcile and Post	ADMIN	11/10/09 11:34 am

Time	User	Step	Action
11/20/08 8:54:20 am	Roy Graham	1	Created Job BAKER_MP_A
11/20/08 8:54:20 am	Roy Graham	1	Job 1551811 placed in BAKER_MP_A queue
11/20/08 8:56:21 am	Roy Graham	1	Assigned Job to Graham, Roy by Roy Graham
11/20/08 8:56:23 am	Roy Graham	1	Started executing step Create Version
11/20/08 8:56:23 am	Roy Graham	1	Stopped executing step Create Version
11/20/08 8:56:23 am	Roy Graham	1	Completed step Create Version
11/20/08 8:57:03 am	Roy Graham	2	Started executing step Add Study Info Record
11/20/08 9:01:40 am	Roy Graham	2	Stopped executing step Add Study Info Record
11/20/08 9:12:49 am	Roy Graham	2	Started executing step Add Study Info Record
11/20/08 9:18:37 am	Roy Graham	2	Stopped executing step Add Study Info Record

2. To close your JTX job, please submit a MIP Help support request by e-mailing MIPHelp@riskmapcds.com. In the e-mail state that you want your JTX job closed. **ALSO, PLEASE INCLUDE YOUR JTX JOB ID.** If you do not include, MIP Help will have to contact you to obtain which will prolong resolution of your request. You will receive a reply from MIP Help staff within 3 business days.