RAPTURE BULK FILE LOADER

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OVERVIEW

The Bulk File Loader in **Rapture** is an external application that monitors a well defined folder structure. The names of files that appear in an incoming folder are checked against a set of valid processor configurations until a match is found. That match defines a **Reflex** script that will be invoked for that file. Normally that **Reflex** script will do whatever is necessary to import that type of file and if successful the file will be moved into a done folder. Files that cannot be handled or matched are moved into an error folder.

A typical use of the Bulk File Loader is to sit the application on a remote server, perhaps pointing at an incoming folder that matches a location used by an upload program or an ftp server's home directory. Privileged remote users can upload files to be imported into a **Rapture** system and the behaviour followed for different types of files with different contents can be customized through **Reflex** scripts.

The general flow of the application is shown in Figure 1 on the following page.

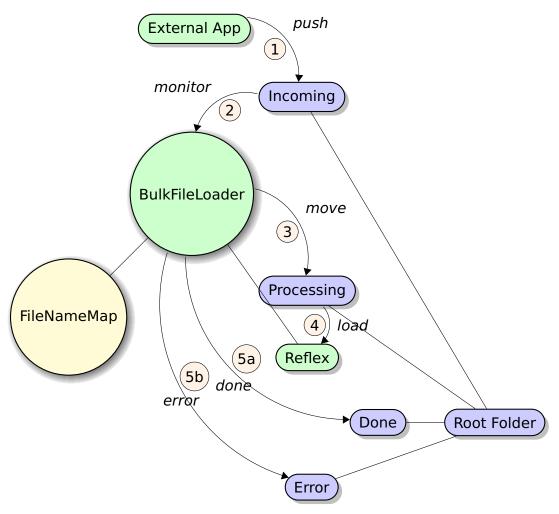


Figure 1: Bulk File Loader flow

In Figure 1 the numbers refer to the following steps:

- 1. An external application pushes a file to the incoming folder.
- 2. The Bulk File Loader application is monitoring this folder to detect new files.
- 3. When it sees a new file it moves the file to the processing folder and resolves using the filename to an appropriate **Reflex** script to process the file.
- 4. That Reflex script loads the file and does whatever it needs to do with the contents.
- 5. If successful (a) the Bulk File Loader moves the file into the done folder. If not successful (b) the application moves the file into the error folder.

The Bulk File Loader is configured through its file name map document – a document stored in **Rapture** and referred to on the command line that invoked the application. The format of this configuration file is reproduced below:

The configuration is basically an array of "maps". Each entry contains the values described in Table 1.

Field Name	Description			
nameRegex	This is a regular expression that needs to match the name of the file for this map to be matched. The example above matches files ending in .ord.			
partition	The partition in which the script to run for this match is stored.			
scriptName	The name of the script (in Rapture , in the partition above) that is to be executed for this match.			
params	Any optional parameters that will be passed to the script on invocation.			

Table 1: Configuration values in map definition



REFLEX SCRIPT

The **Reflex** script that is invoked for a map match should return either true for a successful load or false for an unsuccessful load. All other values (including no return) will be treated as an error by the Bulk File Loader.

The **Reflex** script will be called with the variables pre-initialized to the set of values in the params field of the map that matched (e.g. param1 will have the value 1 from the map definition in the previous chapter) and the predefined variable fileName which will be set to the full path of the file being loaded. This latter parameter will usually be passed into a file **Reflex** function call to setup a file object for processing. A simplistic example is shown in the listing below.

```
// A Reflex script to load a file via the bulk file loader

if !defined(fileName) do
    throw "Must be called from Bulk File Loader";
end

f = file(fileName);
for line in f do
    // Do something with this line
end

return true;
```



BULK FILE LOADER COMMAND LINE

The parameters for the command line for the Bulk File Loader application are shown in Table 2.

Name	Example	Description
-r	http://rapture	The Rapture environment to connect to
-u	bfluser	The user (usually an api key) for the application
-p	****	A password to login to Rapture (if required, not required if the user is an api key user)
-f	/user/bfl/data	The root folder to point this loader instance at
-partition	config	The partition that holds the configuration
-m	config/bfl/orderMap	The configuration path for the mapping document
-V	[no value]	Whether the application should present a UI showing the log output

Table 2: Bulk File Loader Command Line Parameters

A typical invocation of the application would be:

```
java BulkFileLoader.jar -r http://rapture
   -u aaadd32342376dafc3334 -f /usr/bfl/data
   -partition config -m config/bfl/orderMap
```

The application runs until it has been terminated.

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INCAPTURE TECHNOLOGIES LLC

183 Madison Avenue, Suite 801 New York, NY 10016

