

## **Send Audit Log via CURL in background**

When we saw the new OnWindowTransaction, we got the idea to pass the JSON we receive to a web server to log the changes outside the FileMaker database. We had a similar thing with using [MongoDB](#) functions in a recent blog post: [OnWindowTransaction and MongoDB](#). By storing the JSON outside, we can do the audit log on a different server. Whether you pass the JSON to another FileMaker Pro via our [WebHook](#) functions, a PHP script on your web server or directly send it to AWS to put in a database.

From the point of view of [MBS FileMaker Plugin](#) we just use the [CURL](#) functions. And there we have the [CURL.PerformInBackground](#) function to perform a HTTP Post in the background without slowing down the GUI. When the request is sent, we get either an expression evaluated or a script triggered. There we may check if the transfer worked, maybe do something special if it failed. But on the end we always free the curl object.

Take a look on the script:

```
Set Variable [ $json ; Value: Get(ScriptParameter) ]
Set Variable [ $URL ; Value: "https://yourdomain.com/yourscript.php" ]
#
Set Variable [ $curl ; Value: MBS("CURL.New") ]
# configure transfer
Set Variable [ $r ; Value: MBS("CURL.SetOptionURL"; $curl; $URL) ]
Set Variable [ $r ; Value: MBS("CURL.SetOptionPostFields"; $curl; $json) ]
Set Variable [ $r ; Value: MBS("CURL.SetOptionHTTPHeader"; $curl; "Content-Type: application/json") ]
#
# Let the evaluate then free the transfer
# Set Variable [ $r ; Value: MBS("CURL.SetFinishedEvaluate"; $curl;
"MBS("CURL.Release"; $$ID$$)" ) ]
# or run a script to handle result
Set Variable [ $r ; Value: MBS("CURL.SetFinishedScript"; $curl; Get(FileName);
"Transfer Finished" ) ]
#
# run in background thread asynchronously
Set Variable [ $r ; Value: MBS("CURL.PerformInBackground"; $curl) ]
```

You can have multiple transfers running parallel and no user has to wait for a script to finish, since it ends with the call to [CURL.PerformInBackground](#). With the finish script or expression, we can inspect the result and free the curl session. Since curl has a connection cache, it may reuse the connection automatically. Whether you use the finished script, you get the \$curl as parameter. In the evaluate, you use \$\$ID\$\$ as placeholder for the plugin to put the \$curl value. Of course you can use a Let statement to bundle multiple calls there. In both cases

you can check response code, the error code, the effective URL and other values. If you like, you can use [CURL.SetTag](#) in first script and [CURL.GetTag](#) in second script to pass whatever data you need.

Here is the sample Transfer Finished script:

```
Set Variable [ $curl ; Value: Get(ScriptParameter) ]  
#  
# check result?  
Set Variable [ $Error ; Value: MBS( "CURL.ErrorCode"; $curl ) ]  
Set Variable [ $ResponseCode ; Value: MBS( "CURL.GetResponseCode";  
$curl ) ]  
Set Variable [ $EffectiveURL ; Value: MBS( "CURL.GetEffectiveURL"; $curl ) ]  
#  
Set Variable [ $r ; Value: MBS("Curl.Release"; $curl) ]
```

If the script doesn't run, please check your privilege set for the option "Validate cross-file plug-in access (fmplugin)" and make sure it is checked to allow the script trigger.

The example file will be included with the [MBS FileMaker Plugin](#). Please do not hesitate to contact us with your questions.