**Description**

**Docx files are uploaded as zip files**

When I upload `.docx` files to my Tiki-Wiki server (using the Cyberduck WebDAV client on Windows 7) they are uploaded with the mime-type `application/zip` instead of `application/vnd.openxmlformats-officedocument.wordprocessingml.document` (the correct one). Consequently the browser cannot directly open them which is very annoying.

**Some attempts to debug the problem**

When I try to access a file on the web server directly by manually putting it in the homepage folder and downloading it directly from the web server the file is recognized correctly. For me this means that the mime-type of the Apache server is working properly.

I checked the same issue with a the same configuration and a fresh installation at my home pc: It also didn't work. In both cases I was using the 9.x SVN branch.

Strange enough it did work when I tried to upload to demo.tiki.org, (for both, 8x and 9x). However the mime-type was set to `application/ms-word` which is strictly speaking also not correct (but at least it...
then opens correctly). I have no idea why it works there...

My overall guess is that it has something to do with the fact that .docx files are actually zip files. Maybe somewhere a content based mime-detection is performed (be it in the WebDAV client, the Apache server or on the Wiki) but instead an extension based detection should have been used to distinguish .docx files from .zip files. It might also have something to do with the deflate mod (not sure).

In any case/whatever the reason the proposed solution below seems to fix all my issues and probably also some other people's issues.

Solution

One possible solution/workaround

The following changes fix the issue for me:

1. Enhance the mime-type fix functionality

By applying the patch/change below the mime-type fix which was originally only for mime-types application/octet-stream (it was intended for images?) is extended to all mime-types and set according to the file extension in lib/mime/mimetypes.php (if the extension exists):
function fixMime($fileData)
{
    global $prefs;
    global $mimetypes; include ('lib/mime/mimetypes.php');
    if ($prefs['fgal_fix_mime_type'] != 'y') {
        return $fileData['filetype'];
    }
    if ($fileData['filetype'] != "application/octet-stream") {
        $suffix=strtolower(preg_replace('/.*\./', '', $fileData['filename']));
        $filetype = $mimetypes[$suffix];
        if ($filetype) {
            return $filetype;
        } else {
            return $fileData['filetype'];
        }
    }
    $suffix=strtolower(preg_replace('/.*\./', '', $fileData['filename']));
    switch($suffix) {
        case 'jpg' :
        case 'jpeg' :
            $filetype = 'image/jpeg';
            break;
        case 'gif' :
            $filetype = 'image/gif';
            break;
        case 'png' :
            $filetype = 'image/png';
            break;
        case 'tif' :
        case 'tiff' :
            $filetype = 'image/tiff';
            break;
        case 'svg' :
            $filetype = 'image/svg+xml';
            break;
        case 'pdf' :
            $filetype = 'application/pdf';
            break;
        case 'doc' :
            $filetype = 'application/msword';
            break;
        case 'ppt' :
            $filetype = 'application/vnd.ms-powerpoint';
            break;
        case 'xls' :
            $filetype = 'application/vnd.ms-excel';
            break;
        case 'docx' :
            $filetype = 'application/vnd.openxmlformats-officedocument.wordprocessingml.document';
            break;
        default :
            $filetype = 'application/octet-stream';
            break;
    }
    return $filetype;
}
In my case this means that the mime-type of the .docx file (which was application/zip originally) is changed accordingly based on the .docx extension (by checking the entry in lib/mime/mimetypes.php).

2. Update the mime-types in Tiki-Wiki

Unfortunately lib/mime/mimetypes.php does not contain the .docx/etc mime-types. So I replaced it with a more recent version (this could be done by using the script in mimetypes.php on a recent mime.types file which has all necessary extensions,

Alternatively one could simply add the following types (that's what I did):

```
"docm" => "application/vnd.ms-word.document.macroEnabled.12",
"docx" => "application/vnd.openxmlformats-officedocument.wordprocessingml.document",
"dotx" => "application/vnd.openxmlformats-officedocument.wordprocessingml.template",
"potm" => "application/vnd.ms-powerpoint.template.macroEnabled.12",
"potx" => "application/vnd.openxmlformats-officedocument.presentationml.template",
"ppam" => "application/vnd.ms-powerpoint.addin.macroEnabled.12",
"ppsm" => "application/vnd.ms-powerpoint.slideshow.macroEnabled.12",
"ppsx" => "application/vnd.openxmlformats-officedocument.presentationml.slideshow",
"pptm" => "application/vnd.ms-powerpoint.presentation.macroEnabled.12",
"pptx" => "application/vnd.openxmlformats-officedocument.presentationml.presentation",
"xlam" => "application/vnd.ms-excel.addin.macroEnabled.12",
"xlsb" => "application/vnd.ms-excel.sheet.binary.macroEnabled.12",
"xlsm" => "application/vnd.ms-excel.sheet.macroEnabled.12",
"xlsx" => "application/vnd.openxmlformats-officedocument.spreadsheetml.sheet",
"xltm" => "application/vnd.ms-excel.template.macroEnabled.12",
"xltx" => "application/vnd.openxmlformats-officedocument.spreadsheetml.template",
```

3. Optionally

Also update lib/mime/mimeextensions.php and icons accordingly...

Conclusion

With this changes everything seems to work fine for me but I don't know enough about the Tiki Wiki and PHP to know whether this breaks something or if it is bad for some other reason.

In any case I would really appreciate if someone could at least take a look at the issue / proposed solution...

Importance
9 high

Easy to solve?
9

Priority
81

Demonstrate Bug
Please demonstrate your bug on show2.tikiwiki.org

Version: trunk

Ticket ID
4268

Created
Thursday 26 July, 2012 14:55:45 GMT-0000

LastModif
Tuesday 14 August, 2012 08:10:35 GMT-0000

Comments

David Carter 26 Jul 12 17:33 GMT-0000
I'm not a software developer and I don't have commit access, but I worked around this problem by adding the following lines to the list of extensions in the file /lib/mime/mimeextensions.php

"application/vnd.openxmlformats-officedocument.wordprocessingml.document" => "docx",
"application/vnd.openxmlformats-officedocument.spreadsheetml.sheet" => "xlsx",
"application/vnd.openxmlformats-officedocument.presentationml.presentation" => "pptx",

I then copied the icon files that Tiki uses to display the older Microsoft Office MIME types and added an "x" to the end of their names, so that I had these:

/pics/icons/mime/docx.png
/pics/icons/mime/xlsx.png
/pics/icons/mime/pptx.png

I had to re-upload the files for Tiki to parse the correct MIME type from the file as it stored it in the database, but at least it knows now what these files are and represents them correctly in the File Gallery.

David Carter 26 Jul 12 20:39 GMT-0000
Oh, one more thing. I think you might have to add the MIME types to /lib/mime/mimetypes.php as well. The format is different in that file but it's easy to figure out what's what since the one for "dotx" was added in 9.0.
Marc Laporte 26 Jul 12 23:48 GMT-0000

docx, xlsx and pptx are indeed missing from:
http://tikiwiki.svn.sourceforge.net/viewvc/tikiwiki/branches/9.x/lib/mime/mimetypes.php?view=markup as of now...

What is your SourceForge username?

Thanks!

David Carter 27 Jul 12 19:44
GMT-0000

Same as here: panamaus

Marc Laporte 27 Jul 12
21:25 GMT-0000

https://sourceforge.net/users/panamaus

Marc Laporte 26 Jul 12 23:24 GMT-0000

FIX iconify: Try 3 character version for longer file extensions (works for xlsx, docx etc), then try the mimetypes for an existing icon if not found
http://tikiwiki.svn.sourceforge.net/viewvc/tikiwiki?view=revision&revision=42414

ENH filegals: Add mimetype dropdown to file properties edit form
http://tikiwiki.svn.sourceforge.net/viewvc/tikiwiki?view=revision&revision=42410

Marc Laporte 27 Jul 12 21:25 GMT-0000

http://irc.tiki.org/irclogger_log/tikiwiki?date=2012-07-27,Fri&sel=227#l223
Marc Laporte 31 Jul 12 00:17 GMT-0000

http://irc.tiki.org/irclogger_log/tikiwiki?date=2012-07-31,Tue&sel=4#l0

Jonas Jermann 31 Jul 12 19:37 GMT-0000

Hi, I found a workaround and modified my post accordingly. What do you think about it?

Marc Laporte 06 Aug 12 19:20 GMT-0000

Here is the commit:
http://tikiwiki.svn.sourceforge.net/viewvc/tikiwiki?view=revision&revision=42543

Please test.

It's not your patch, because some more global cleanup needed to be done. But thank you for your perseverance with this. Your patch prompted someone to do better 😊

Best regards,
M ;-)

Attachments

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<th>comment</th>
<th>version</th>
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<td>62</td>
<td>mime-type fix patch</td>
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The original document is available at https://dev.tiki.org/item4268--docx-files-uploaded-as-zip-files