Ajaxplorer
Driver API v 2.3

Table des matières

Introduction

This document describes the API queries that an Ajaxplorer driver must implement. A service driver must propose one entry point that will handle all the queries via the «get_action» parameter.

. **The minimal required implemented** query is «ls». For the client to be usable, it is also recommended to implement the «image_proxy» and «download» queries, which are quite straitforward.

. **All communication (parameters and results) is UTF8** encoded, thus, depending on the host system encoding, you may have to utf8_decode the parameters to find your files, and in that case do not forget to reencode all dirnames and filenames when sending result.

. **XML Formatting** : the Xml samples are presented here with lot of spaces and linebreaks for a better visibility, but be sure to remove all linebreaks to send efficient xml strings as results and to avoid unnecessary blank nodes when parsing DOM XML. For example, the server should answer to a simple «ls» query in «complete» mode :

```
<?xml version="1.0" encoding="UTF-8"?><tree><tree text="Musique"/><tree
text="Photos"/></tree>
```

QUERY ls

Listing of one directory. The client will always ask for one level of listing, never a recursive listing. The default repository is «/», which is the root of the repository and must be configured internally. The driver must check that no one tries to access «../» or such security breaches.

Query method

HTTP GET

Query Parameters

- **get_action** : ls
- **dir** : [default : /]. Example : /mypath/to/a/directory
- **mode** : [file_list|search|complete|null] : defines the result format.

Display modes can be separated as follow :
- *null* (no parameter passed) : listing of folders only
    - *complete* : folders only but very light, for autocompletion
- *file_list* : files and folders with details
    - *search* : files and folders very light, used for search engine.

Query Answer

Header : text/xml
Encoding : UTF8
XML Format : depends on the mode parameter

Default mode : mode parameter not passed

FOLDERS ONLY

XML sample :

```
<?xml version="1.0" encoding="UTF-8"?>
<tree>
     <tree
          text="Musique"
          icon="client/images/foldericon.png"
          openicon="client/images/openfoldericon.png"
          filename="/toto/Musique"
          parentname="/toto"
          src="content.php?dir=%2Ftoto%2FMusique"

     action="javascript:ajaxplorer.getFoldersTree().clickNode(CURRENT_ID)"
     />
</tree>
```

Complete mode : mode=complete.

FOLDERS ONLY : used by the autocompleter of the location bar, minimal result.

```
<?xml version="1.0" encoding="UTF-8"?>
<tree>
     <tree text="Musique"/>
     <tree text="Photos"/>
</tree>
```

File List mode : mode parameter set to file_list

FILES AND FOLDERS
See Annex for the currently available icons list.

XML Sample

```
<?xml version="1.0" encoding="UTF-8"?>

<tree>

     <!-- A FOLDER -->
     <tree
          text="tt"
          is_file="0"
          is_image="0"
          mimestring="Directory"
          modiftime="17/12/2007 19:18"
          filesize="-"
          filename="/Musique/tt"
          icon="folder.png"
     />

     <!-- A FILE -->
     <tree
          text="mydoc.txt"
          is_file="1"
          is_image="0"
```

```
            mimestring="Text File"
            modiftime="12/12/2007 15:57"
            filesize="119.63 Kb"
            filename="/Musique/mydoc.txt"
            icon="text2.png"
    />

    <!-- AN IMAGE FILE -->
    <tree
            text="20071207-eFlyCabaret-Recto.gif"
            is_file="1"
            is_image="1"
            <!-- IMAGE SPECIFIC ATTRIBUTES (needed only if is_image=1) -->
            image_type="image/gif"
            image_width="344"
            image_height="485"
            <!-- END OF IMAGE ATTRIBUTES -->
            mimestring="GIF picture"
            modiftime="12/12/2007 15:57"
            filesize="119.63 Kb"
            filename="/Musique/20071207-eFlyCabaret-Recto.gif"
            icon="image.png"
    />
</tree>
```

Search mode : mode=search

FILES AND FOLDERS : used by the search engine. This as lightweight file_list listing. Note that the client is performing the search, this query indeed lists a whole directory without knowing what is searched for.

```
<?xml version="1.0" encoding="UTF-8"?>
<tree>
    <!-- A FOLDER -->
    <tree text="tt"/>
    <!-- A FILE -->
    <tree text="20071207-eFlyCabaret-Recto.gif" is_file="true"
icon="image.png"/>
</tree>
```

QUERY download

This query send a file to the user, as an attachement to trigger the browser «Save as...» dialog.

Query Method

HTTP GET

Query Parameters

- **get_action** : download
- **file** : full path to the file to get from the repository root. Example /my/path/to/file.ext

Query Answer

- HTTP Headers
    - Content-Type: application/force-download; name=*"basenameofthefile"*
    - Content-Transfer-Encoding: binary

- Content-Length: ***sizeoffileinoctet***

- Content-Disposition: attachment; filename=***"basenameofthefile"***

- Expires: 0

- Cache-Control: no-cache, must-revalidate

- Pragma: no-cache

- HTTP CONTENT

  Content of the file

QUERY image_proxy

This query send the content of an image, used as « src » html attribute in « img » tags. Basically, image/jpg, image/jpeg, image/gif and image/png must be supported.

Query Method

HTTP GET

Query Parameters

- **get_action** : image_proxy
- **file** : full path to the file to get from the repository root. Example /my/path/to/image.jpg
- **get_thumb** : true (not implemented in the php driver)

Query Answer

- HTTP Headers

  - Content-Type: ***imagemimetype***; name="***basenameofthefile***"

  - Content-Length: ***sizeofthefile***

  - Cache-Control: public

- HTTP CONTENT

  Content of the file

ANNEX 1 : Available icons

For the moment, the driver **must** send back the image to use as icon (this should be ported in client). Extensions are given as a helper for coding your own utilitary function...

FOLDER : folder.png

MIDI FILE (.mid) : midi.png

TEXT FILE : txt2.png

JAVASCRIPT .js : javascript.png

IMAGE (.gif, .jpg, etc...) : image.png

HTML (.html, .htm) : html.png

ARCHIVE (.rar, .gz, .z...) : archive.png

VIDEO (.ra, .ram, .rm, etc...) : video.png

PERL (.pl) : source_pl.png

AUDIO (.wav, .mp3...) : sound.png

PHP (.php, .php3, .phtml, etc) : php.png

EXE .exe : exe.png

CSS (.css) : css.png

SPREADSHEET (.xls) : spreadsheet.png

WORD DOCUMENT (.doc) : document.png

PDF .pdf : pdf.png

FLASH (.swf) : flash.png

UNKOWN : mime_empty.png