

User's Manual



"Today people are
not any more rooted
but networked."
Anna Heine

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Chapter 1

Introduction

JUpload is a tool (a java applet) for the upload of local files from the client to the webservice using the standard protocol HTTP.

The application replaces a function, which is not integrated into today's browsers very comfortably. It expands the functionality of the supported browsers. In its main function, this is to select multiple resources and to upload them in one step to the server. Secondly, the usability is increased. That is achieved especially through such neat features like image previewing or progress meters. Such features are not part of the standard browsers.

Furthermore JUpload is designed to support secure transfer of the files using SSL.

A specialty of JUpload is its Resume-feature, but this has to be supported on server-side too. You don't need to re-implement your web application. All you have to do is to replace the part which accepts the uploaded files.

This manual gives you the information for installation and configuration (for administrators and web application developers), usage (user manual). Developers get all the required information in the Developers section.

Chapter 2

Administration

The administrative section is about installation and configuration of the applet on the server-side. For usage of the applet, see the user manual section.

2.1 Installation

In these subsections, you will find the system requirements for the applet and the procedure to install and to configure the applet.

2.1.1 System requirements

On server side: There are no special server-side requirements, except: The server must be able to deliver binary data, so the applet can be downloaded by the users.

Important to know is, that some of the webservers can't handle multipart requests properly. This is the case with older ASP and PHP versions. Please use current versions of the server extensions.

On client side: On the client side, we need at least *Java 1.4*. This version includes the Java Plug-In which is used to run applets in the browser. The applet may run on Java 1.3, but this is not officially supported.

It is not possible to use *Microsoft Virtual Machine*. The reason is that MS-JVM is based on Java 1.1 and does not support some of the required features.

The client also requires a browser which can handle signed applet. The applet runs fine on Internet Explorer, Mozilla and Opera. It does not run in Konqueror.

2.1.2 Installation

Uncompress the downloaded archive (`jupload.zip`) into a directory beneath the document root of your webserver.

The most important file is `JUpload.jar`, which contains the signed application.

2.2 Configuration

The applet's can be configured to fit the requirements of your web application. The easiest way is to use the sample handler `JUpload.php` which is included in the archive.

Please make sure that PHP is properly installed and configured before using any of the provided samples.

Also make sure that normal file upload is working. To test this, you can create a html file with the following content:

Example:

```
<html>
  <form method="POST"
        action="JUpload.php"
        enctype="application/form-data">

    <input type=file>

    <input type=submit>

  </form>
</html>
```

Result on the HTML page:

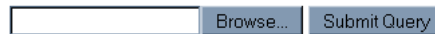


Figure 2.1: A standard file input tag for upload

Start your browser and open the URL of the HTML file. Do not open the file using your filesystem. To make sure you're running it from a webserver, you can use another machine.

Select a readable file from your local hard disk and click on submit. Is the file being uploaded and if you can find it on the server's target location (specified in JUpload.php), the upload works and you can go on with the configuration of JUpload.

The most important parameter is *actionURL*. This settings tells where to send the files. For the understanding: this should be same URL as in the action attribute of the form.

Example:

```
<applet ...>

  <param name="actionURL"
        value="http://localhost/JUpload.php">

</applet>
```

Most webbrowsers are case-sensitive. So make sure you entered the correct URL!

The complete applet tag can be retrieved from sample files. In productive environments, you should not use applet, but instead a combination of OBJECT and EMBED tags. With the help of these two tags, it's possible to auto-update the users java version.

The following APPLET tag is an example you can use to test your installation:

```
<applet
  code="JUUpload/startup.class"
  archive="JUUpload.jar"
  width="650"
  height="400">

  <param name="actionURL"
    value="JUUpload.php">

</applet>
```

applet The applet tag tells the browser that a java applet is following. The attributes have all required information for the java plugin to find and to run the specified applet from the given archive.

code The code tag specifies the name of the main class. This main class (startup) resides in a package or namespace called JUUpload.

archive The applet consists of multiple class files, and for clarity, these are archived into a single file. You have to specify the name of this archive to find the main classes. Also, the archive contains the signature, which is required. With the help of the signature, the applet gains access to the users local filesystem. If there is no signature, the users won't be questioned and the applet automatically loses the possibility to work properly.

width This is the width in pixel of the space reserved for the applet.

height Same as width, but for the height.

param The param tag is used for configurate the applet. All param tags can be read within the applet. It's like the command line arguments, just for applets. You've got a name attribute and a value attribute. All the supported parameters are described later in this document. Names and values should be quoted. Note that the names and values are case-sensitive!

Parameter names must not have any spaces. It is not possible to use the same parameter name twice or more times.

actionURL This is the address of the server-side application, which will accept the uploaded files. Addresses can be specified relative or absolute to the codebase of the applet. The codebase of the applet is the current html document which is displayed in the browser and which holds the applet tag.

2.2.1 General notes about parameters

A list of all supported parameters can be found later in this document.

All parameters have default values. When a parameter is not specified explicitly, the applet will use its default values. The default values are compiled-in into the source code and can vary from version to version.

There are different types of parameters:

URL An URL specifies a web address. This can be relative or absolute to the codebase. Examples:

```

http://localhost/jupload.php
jupload.php
/myapplication/upload.asp
http://other.server:88/apps/upload.php

```

Boolean This is a parameter of the type Boolean. These are on/off values. It can be specified using the following values: **true, false, on, off, 1, 0, yes, no**

String This is a parameter containing multiple characters, a string. It's used for messages or labels.

Integer This is a parameter for configuring some numbers. If used for file sizes or limits, the unit is always bytes. Often you can switch off the limit by using a value of -1.

2.2.2 Advanced configuration

The advanced configuration is for customizing the applet for your needs.

Internationalization

JUpload is capable of i18n. With the help of properties-files, you can easily specify your own translation. If you want to create your own translation, uncompress the archive, go to the subfolder JUpload/. The filenames of the language packs look like this:

```
jupload_xx_YY.properties
```

Language (xx) und Country (YY) are standardized, see

Language codes: <http://ftp.ics.uci.edu/pub/ietf/http/related/iso639.txt>

Country codes: http://userpage.chemie.fu-berlin.de/diverse/doc/ISO_3166.html or <http://www.iso.org/iso/en/prods-services/iso3166ma/index.html>

The files are simple ASCII files, each line has a keyword and a value. The keyword is concatenated by the class name and an identifier. Often you can use formatting patterns like (n etc.)

While initialising, the applet tries to gather information about the locale settings on client side and tries to find the corresponding language file automatically. You do not need to specify the language explicitly. If no corresponding language file can be found, a default one will be loaded: *jupload.properties*

Part of a translated language file:

```

...
HTTPPostRequest.6=Anfrage vorbereiten...
HTTPPostRequest.8=SecureHTTP vorbereiten...
HTTPPostRequest.13=Öffne Verbindung...
HTTPPostRequest.16=Lese Dateiinformation...
HTTPPostRequest.21=Aushandeln...
...

```

Recursive selection

If a folder is selected in the file chooser dialog, the folder will be processed recursively. This means that all files and folders which are contained in the selected folder, will be processed and added to the file upload queue.

This feature is enabled by default and can be disabled by the administrator. The administrator can also enable and disable the feature of transmitting path information. Many servers recognize path information in the uploaded files and replace them (remove them) for safety. If you require the path information for your application, JUpload has a special feature to encode the path information so the webserver can't remove it.

JUpload will encode the path information into the content type information, because the content-type can be read by any server-side application.

To switch on this feature, use the following parameter tag:

```
<param name="useRecursivePaths" value="true">
```

If the path information is encoded into the content type, it looks like this:

```
Content-Type: JUpload/Fgjfg73dfhdlkj3jfdklsdfu4=
```

The prefix **JUpload** is a string for identification, the rest (after the Slash) is encoded in base64. Your web application in php can simply decode the string by using `base64_decode($string)`¹ and can use the path information.

Some examples:

You have got the following files on your local filesystem:

```
/home/mike/work/work10.txt  
/home/mike/work/old/work05.txt  
/home/mike/work/backup/work02.txt
```

Uploading without the `useRecursivePaths`-feature will result into the server having this information:

```
work10.txt  
work05.txt  
work02.txt
```

It's not possible to extract the relative path information (old, backup etc.) of these files. With the recursive path feature enabled, the server will receive:

```
work/work10.txt  
work/old/work05.txt  
work/backup/work02.txt
```

This is based on the user residing in the home folder, and then adding the folder "work" to the file queue. Please note that there are limitations in the length of the content-type. The functionality of this feature can't be guaranteed.

¹http://www.php.net/base64_decode

2.2.3 Debugging

In this section, the process of finding application errors will be discussed. If there are problems in the transmission or the functionality of JUpload, you should enable the debug mode to locate the problematic part. Enabling the debug mode is done by using the following parameter:

```
<param name="debug" value="true">
```

Debug messages will be written into the Java Console. This console can be opened automatically, if you configure it in the ².

The *Java Console Log Window* can be found at different places in the different browser. It can also be accessed by the system tray icon.

Debug messages give detailed information about the process of the application and the current status. With a second parameter, you can enable additional file logging:

```
<param name="debugLogfile" value="c:/jupload.log">
```

or for linux users

```
<param name="debugLogfile" value="/home/username/jupload.log">
```

It is important that the user has write permissions to that file.

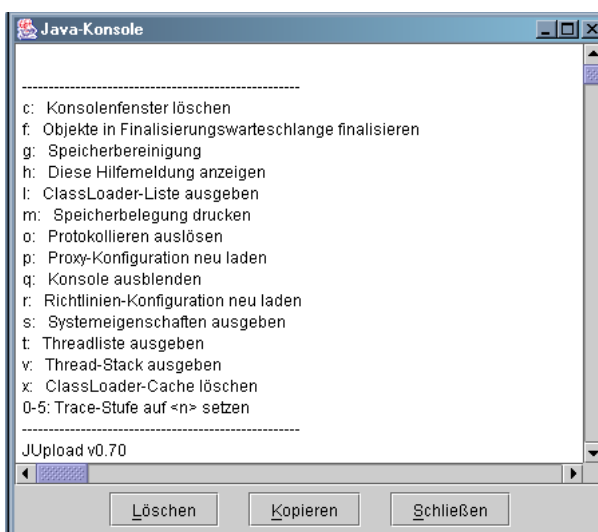


Figure 2.2: Java Console Log Window

2.3 Programming interface

2.3.1 JavaScript API

The interface between Java and JavaScript was developed by Netscape: *LiveConnect*³

²Einstellung im Plugin Control Panel

³<http://wp.netscape.com/eng/mozilla/3.0/handbook/javascript/livecon.htm>

With the help of this packet, Java can access JavaScript functions (and DOM) and vice versa. Both is used by JUpload. Using JavaScript functions, you can remote control the applet. But before being able to do so, you must name the applet with a specific name:

```
<applet width=123
  height=456 name="JUpload" alt="My Applet">
</applet>
```

With the name-tag, the applet can now be accessed as `document.JUpload`. In the following section, we will describe the JavaScript functionality.

2.3.2 Functions

jsIsReady() Returns true, if JUpload is ready to be remote controlled.

jsRegisterAddListener(String) Hooks the given javascript function to the Add (Adding files) event. See next section for details.

jsRegisterAddedListener(String) Hooks the given javascript function to the Added (After all selected files have been queued) event. See next section for details.

jsRegisterRemoveListener(String) Hooks the given javascript function to the Remove (Removing files) event. See next section for details.

jsRegisterUploadListener(String) Hooks the given javascript function to the Upload (Before the upload starts) event. See next section for details.

jsRegisterUploaded(String) Hooks the given javascript function to the Uploaded (After the upload is finished) event. See next section for details.

jsGetFileNumber() Returns the number of files in the upload file queue.

jsGetFileAt(Index) Returns the full qualified filename (with path information) of the file in the file queue at position Index.

jsGetFileSizeAt(Index) Returns the file size at the given position in bytes.

jsClickAdd() Opens the Add Files dialog (simulates a click on the Add button)

jsClickRemove() Simulates a click on the Remove button: removes all selected files from the file upload queue. If no files are selected, a message is shown.

jsClickUpload() Simulates a click on the Upload button, e.g. starts the upload process.

jsGetTotalProgressbarValue() Returns the current value of the total progress bar in percent.

jsRemoveFileAt(Index) Removes the file from the queue at the specified position.

2.3.3 Callback functions

To use the callback functions, JUpload needs to know their names, and the applet must be given the permission to access JavaScript. To give it the permission, the keyword *mayscript* is used. To tell JUpload the names of the user-defined hooks (also called listeners), the following functions can be used:

jsRegisterAddListener(Functionname) This function registers the given function name as a function for the Add event. Each time a file is added (for each of the added files) this function is called.

jsRegisterAddedListener(Functionname) The given function will be called when all files has been added. If the user selectes 5 files and adds them in parallel, this hook will be called once at the end.

jsRegisterRemoveListener(Functionname) Each time a file is removed, this hook is called.

jsRegisterUploadListener(Functionname) This hook will be called right before the upload process starts. *Attention:* JavaScript functions will interrupt the applet as long until they return with `return` or `finish`.

jsRegisterUploaded(Functionname) This hook will be called right after the upload is done.

2.3.4 Example

```

1 <html><head><title >JUpload JavaScript API Example</title >
2 <SCRIPT language="JavaScript">
3 <!--
4 function myOnLoad()
5 {
6     if (!document.JUpload) return;
7
8     // check if jupload is up and running
9     if (document.JUpload.jsIsReady())
10    {
11        // Register the listeners
12        document.JUpload.jsRegisterAddListener("myAddListener");
13        document.JUpload.jsRegisterRemoveListener("myRemoveListener");
14        document.JUpload.jsRegisterUploadListener("myUploadListener");
15        document.JUpload.jsRegisterUploaded("myUploaded");
16    }
17    else
18    {
19        // wait and try again until JUpload is ready
20        window.setTimeout('myOnLoad()',400);
21    }
22 }
23
24 function myAddListener()
25 {
26     alert("A file was added");
27 }
28
29 function myRemoveListener()
30 {
31     alert("A file was remove");
32 }
33
34 function myUploadListener()
35 {
36     alert("Upload will be started");
37 }
38
39 function myUploaded()
40 {
41     alert("Upload is finished");
42 }
43
44
45 function displayFileQueue()
46 {
47     // if there is no JUpload, go back
48     if(!document.JUpload) return;
49     if(!document.JUpload.jsIsReady()) return;

```

```

50
51 // open a new empty document
52 Fl=window.open("about:blank","queueWindow","width=300, height=400");
53 Fl.document.writeln("<html><body><h1>File list:</h1>there are");
54 var number = document.JUpload.jsGetFileNumber();
55 Fl.document.writeln(number);
56 Fl.document.writeln("files.<ul>");
57 // write a file list
58 for(i=0;i<number;i++)
59 {
60   Fl.document.writeln("<li>"+document.JUpload.jsGetFileAt(i));
61   Fl.document.writeln("<br><font color=green>Size: "+document.JUpload.jsGetFileSizeAt(i)+"</font>");
62 }
63 Fl.document.writeln("</ul><body></html>");
64 }
65
66 //--->
67 </SCRIPT></HEAD>
68 <BODY onLoad="myOnLoad();" >
69
70 <form name="JUploadForm">
71   <input type=button value="Add files" onClick="document.JUpload.jsClickAdd();" >
72   <input type=button value="Remove files" onClick="document.JUpload.jsClickRemove();" >
73   <input type=button value="Start Upload" onClick="document.JUpload.jsClickUpload();" >
74   <input type=button value="Display File Queue" onClick="displayFileQueue();" >
75 </form>
76
77 <applet
78   code="JUpload/startup.class"
79   archive="JUpload.jar"
80   name="JUpload"
81   mayscript
82   width="650"
83   height="400"
84   alt="JUpload uploads files to webserver">
85 <PARAM NAME="actionURL" VALUE="JUpload.php">
86 </applet>
87 </body>
88 </html>

```

2.4 JUpload Plugins

This section will give an introduction to the integrated JUpload plugins. They are used as standalone java applets on the same html page. It is not possible to use them in different frames. With the help of the JUpload Plugins, you can customize the look and feel and the behaviour of the applet.

2.4.1 Filetype chooser

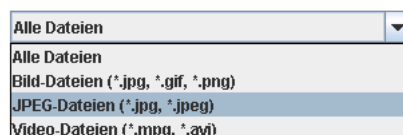


Figure 2.3: Filetype chooser plugin

The plugin with the name *JUploadPlugin_FiletypeChooser* let's you integrate a file type (or file filter) chooser on the page. Selecting a different file type filter in this plugin will set it in the file selection window of the other plugin *JUploadPlugin_SimpleFileChooser*

Usage:

```

<applet
  code="JUploadPlugin_FiletypeChooser"
  archive="../jupload.jar"
  width="300"
  height="24"

```

```

mayscript
name="JUploadPlugin_FiletypeChooser"
alt="JUpload Plugin: Filetype chooser">
</applet>

```

2.4.2 Folder chooser

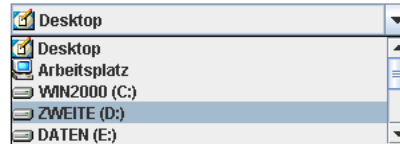


Figure 2.4: Folder chooser plugin

The plugin *JUploadPlugin_FolderChooser* lets you choose the folder for adding files from. Like the file type chooser plugin, it depends only on the SimpleFileChooser plugin and not on the standard Add files dialog of JUpload.

```

<applet
code="JUploadPlugin_FolderChooser"
archive="../jupload.jar"
width="300"
height="24"
mayscript
name="JUploadPlugin_FolderChooser"
alt="JUpload Plugin: Folder chooser">
</applet>

```

2.4.3 Simple file chooser plugin



Figure 2.5: Simple file chooser plugin in List view

This plugin *JUploadPlugin_SimpleFileChooser* will give you a view of your local file system, like the one in the Add files dialog. It will display all the files of your

Filename	Size	Description	Last changed
.xpics	0 B	Dateiordner	05.11.2003
1280x1024...	1 KB	GIF-Bild	05.11.2003
1600x1280...	2 KB	GIF-Bild	05.11.2003
639x479.gif	3 KB	GIF-Bild	05.11.2003
640x480.gif	3 KB	GIF-Bild	05.11.2003
800x600.gif	4 KB	GIF-Bild	05.11.2003
900x1000.gif	5 KB	GIF-Bild	05.11.2003
Chateau.jpg	68 KB	JPEG-Bild	04.09.2002
Eigene Bild...	0 B	Dateiordner	09.10.2003
mailserver...	7 KB	ZARGO-Da...	19.11.2003
My Music	0 B	Dateiordner	24.10.2003
Sonnenfins...	24 KB	JPEG-Bild	04.09.2002
test.txt	97 KB	TXT-Datei	01.12.2003
The Slip	0 B	Dateiordner	06.02.2004
Windows 2...	126 KB	JPEG-Bild	04.09.2002

Figure 2.6: Simple file chooser plugin in Detailed view

current directory. With the help of the filetype plugin, the folder chooser plugin, and some JavaScript functions, you can create your own customized Add files dialog. And best is, it will be integrated into your html page and style - no annoying popup dialog window.

Here are the JavaScript functions available to remote control the plugin:

jsMoveUP(); This will jump from the current folder to its parent folder.

jsGotoHome() This will jump to the users home directory.

jsGotoDefault() This will jump to the users default directory for selecting files.

jsViewList() This will switch the viewing mode to the (default) list mode. This will only display the filenames and the icons for that filetype as requested by the operating system.

jsViewDetailed() This will switch to a detailed viewing mode, displaying a table with more information about the files. It will display the filename, it's size, a description about the file type and the last modified timestamp.

jsViewThumbnail() This will switch to a view with thumbnails of images.

Here is the code to integrate the simple file chooser plugin into the html document:

```
<applet
  code="JUploadPlugin_SimpleFileChooser"
  archive="../jupload.jar"
  width="300"
  height="300"
  mayscript
  name="JUploadPlugin_SimpleFileChooser"
  alt="JUpload Plugin: Simple file chooser">
</applet>
```

2.4.4 Image preview plugin

The *JUploadPlugin_ImagePreview* shows a thumbnail of the currently selected file. The file can be selected in JUpload's file queue list, or in the view of simple file chooser plugin.

Integration code:

```
<applet
  code="JUploadPlugin_ImagePreview"
  archive="../jupload.jar"
  width="300"
  height="300"
  mayscript
  name="JUploadPlugin_ImagePreview"
  alt="JUpload Plugin: Image preview">
</applet>
```

2.4.5 Progress meter plugin

The *JUploadPlugin_ProgressMeter* shows the same progress bar as JUpload would do in its status panel. With the plugin, you can customize its position and size on the html page.

```
<applet
  code="JUploadPlugin_ProgressMeter"
  archive="../jupload.jar"
  width="900"
  height="50"
  mayscript
  name="JUploadPlugin_ProgressMeter"
  alt="JUpload Plugin: Progress meter">
</applet>
```

2.4.6 Remote control

A sample of how to use the remote control features of JUpload and its plugins:

```
<input
  type="button"
  value="Parent folder"
  onClick="document.JUploadPlugin_SimpleFileChooser.jsMoveUp();">

<input
  type="button"
  value="Home folder"
  onClick="document.JUploadPlugin_SimpleFileChooser.jsGotoHome();">

<input
  type="button"
  value="Remove first file"
  onclick="document.JUpload.jsRemoveFileAt(0);">
```

```
<input  
type="button"  
value="Upload"  
onclick="document.JUpload.jsClickUpload();">
```


Chapter 3

User manual

This section describes the handling of JUpload and its functionality.

Due to the variety of different settings, it's not possible to go into all eventualities.

3.1 Handling

3.1.1 Startup

When the product is installed correctly on the webserver and the HTML document is coded, the applet will be called automatically if this document is opened in a browser. The Java Plug-In will start up and run the given JUpload class. While Java is loading the archive, it's possible to display a progress bar.

When the applet is fully loaded, the Java Plug-In will check its certificate. It will show a dialog with information about the certificate which was used to sign the applet's archive. Please check the certificate for correctness and accept with Yes or with Always.

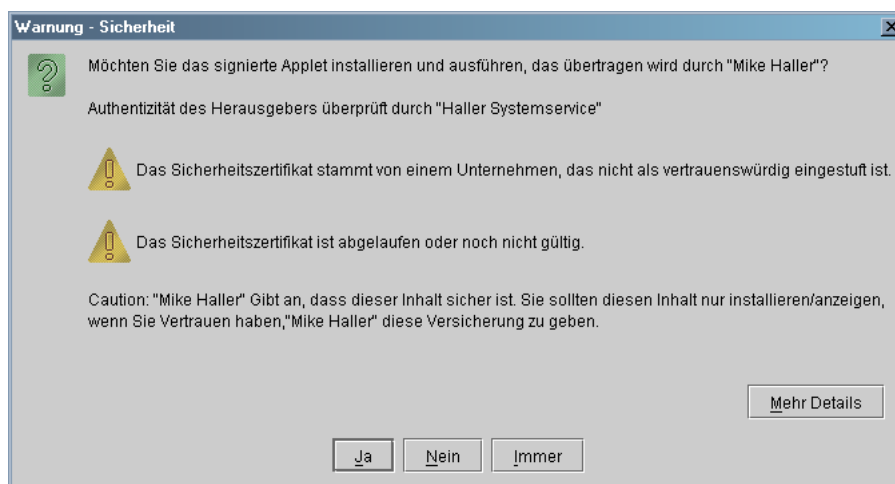


Figure 3.1: Certificate details

3.1.2 Overview

If the JUpload application is loaded and the certificate has been accepted, the main window will appear. In the upper left corner, you will see the **file queue**. In the lower left corner, you will see the **realtime response window**. It will display the server response in realtime, eg. while it's still reading the same. This feature can be switched on and off via parameters.¹

On the right side, you will see the **control area**. There are three buttons: **Add**, **Remove** and **Upload** which are self-explanatory: Add will open a dialog where the user can select files and add them to the file queue. Remove will remove the selected files from the file queue. Upload will start the upload process, send all files to the server and remove them from the file queue.

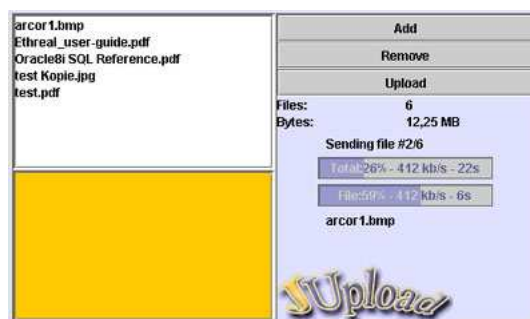


Figure 3.2: JUpload main view

3.1.3 Selecting files

To prepare files for the upload, you have to select them. Selected files will appear in the upper left corner of JUpload, the **file queue**. File names will be displayed in short, if you need to know the full pathname, use the tooltip (move your mouse above the file and wait until the tooltip appears).

To add new files to the file queue, click on the button labeled **Add**. This will display Java file chooser dialog, where you can select files and folders. Accept the dialog to add all selected (marked) files to the file queue. More information about the standard file chooser dialog can be read in the Java user manual or in the manual of your operating system.

While selecting files, JUpload provides a nice gadget: image previewing. This will create a preview of the selected image file. It can be switched off using parameters. Use the mouse wheel to zoom in and out of the preview (this is only functional with Java 1.4 or higher).

Select one or multiple files with a single left click on your mouse, optionally pressing control key or shift key. If you want to select all files, press control and 'A'.

If you do not want to select any files and want to close the dialog, select Abort.

¹see Administrators manual: showRealTimeResponse

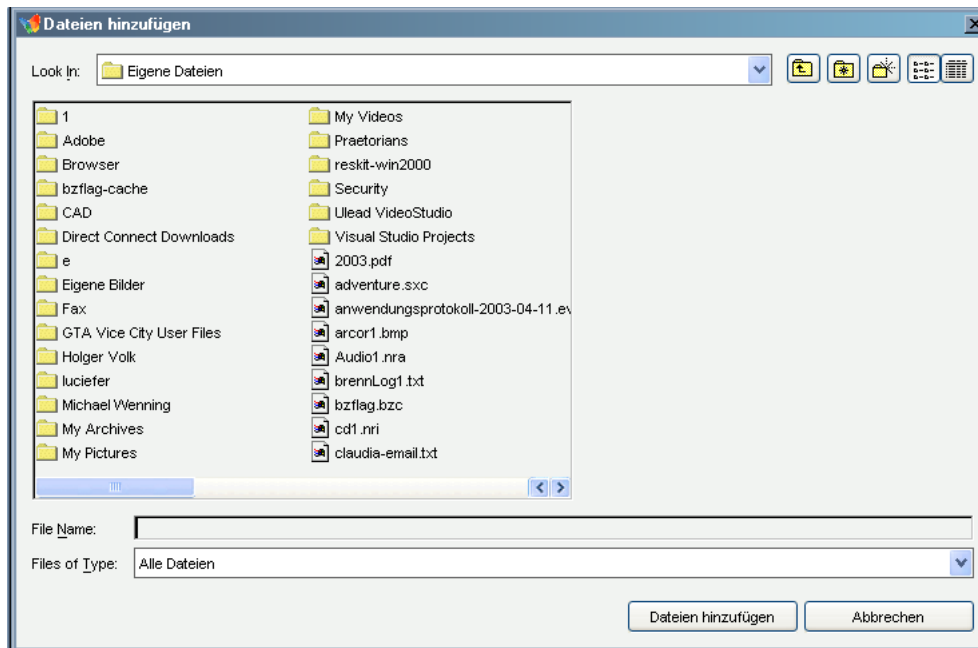


Figure 3.3: File chooser with customized Look And Feel

Drag'n'Drop

You can use Drag'n'Drop to drag files from your filesystem explorer directly into the file queue of JUpload.

Click on the file you want to upload in the explorer and don't release the mouse button. Now, move your mouse over to the running JUpload applet. Move your mouse cursor into the file queue and then release the mouse button. Dragging files out from JUpload is not supported.

File queue

The file queue display all the files which will be uploaded when the upload process starts. It will display the filename, and optionally a small thumbnail of image files. If you rest your mouse cursor over a filename for a few seconds, you will see a tooltip containing the full path information of that file.

3.1.4 Remove files

If there are items in the file queue, you do not want to upload, you can remove them from the file queue. Select them using the mouse (single click for single files, hold shift or control to select multiple files) and click the Remove button. The selected items will be removed from the file queue and no longer be uploaded. If the upload process has already started, it's not possible to remove any files. If you remove files from the file queue, no files will be erased from the hard disk.

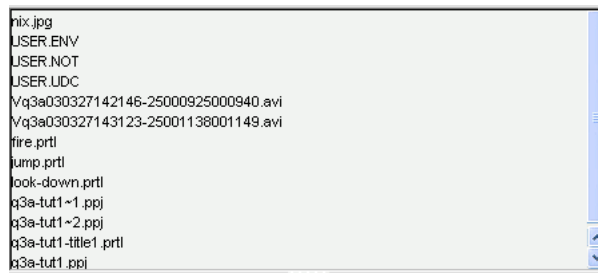


Figure 3.4: File queue

3.1.5 Uploading

If you're ready with selecting and adding files to the file queue, you can start the upload process. Click on the Upload button to start. Note that the upload can't be stopped or paused.

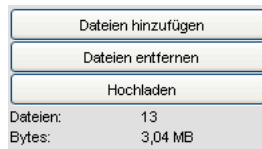


Figure 3.5: Buttons and some info

A cancelled upload process cannot be resumed at the same position, if you're working with standard POST method. Are JUpload and the server configured for using PUT method, upload resuming is possible. This will save you time and nerves.

Using PUT, you can resume the upload. Simply add the same files again and hit the Upload button. JUpload will automatically determine which files have already been uploaded, and which have to be resumed. Please keep in mind that this feature must be supported by the server and the server-side scripts. If you have any questions about this, please ask your system administrator.

3.1.6 Status display

While uploading, you will see a status display on the right side of the applet, just under there the buttons have been. It will display some status messages (like "Looking up server name" or "Connecting" etc.). There is also a progress bar which will display the amount of time elapsed and remaining for the current file and for the total upload process. The current filename is also displayed.

The status display shows the state of the application and the process. It will display messages about handshaking and how many files are already uploaded. It will try to display the bandwidth (speed of upload in kilobyte per second) and the approx. remaining time (ETA).

The upper progress bar will show the progress in percent of the file, the lower one shows the total progress.

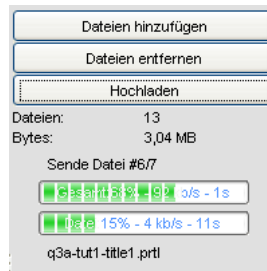


Figure 3.6: Buttons, status and progress bar while process is running

3.1.7 Image preview

The image preview is a comfortable way to find the file you were looking for. The supported file types are the same as Java supports (GIF, JPEG, PNG). You can zoom in and out using the mouse wheel (only in Java 1.4 or higher).

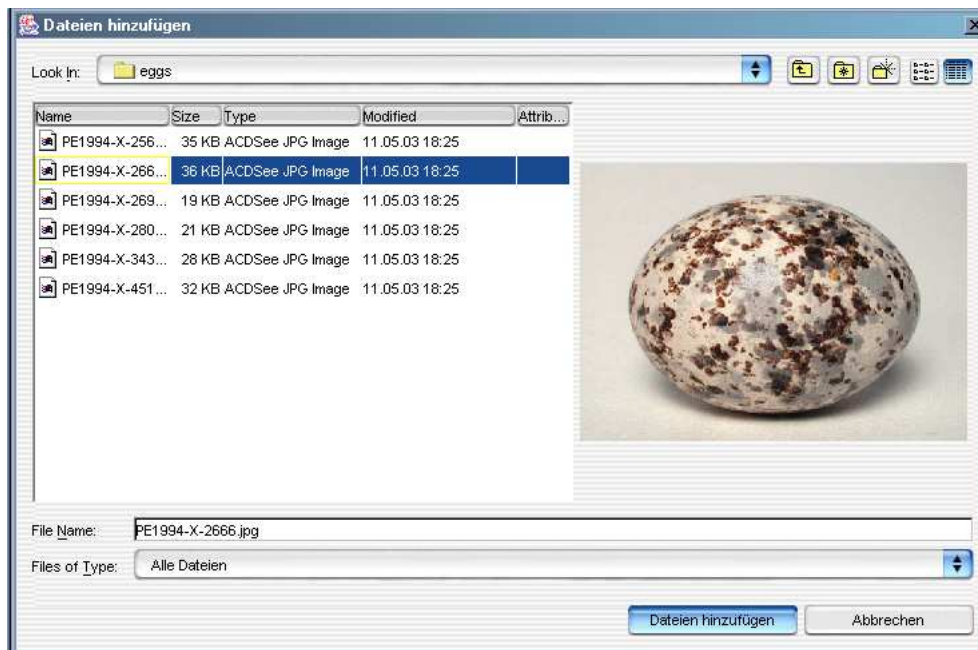


Figure 3.7: File chooser with image preview

The image preview will display the dimension of the image file (height and width) in pixel and their file size in bytes.

3.1.8 Recursive selection

You can select folders in the file chooser, which will be added recursively to the file queue. That means that every subfolder and every file which is contained in them will be added to the file queue. This feature is enabled by default and can be disabled by the administrator.

3.1.9 File filter

File filter are used to hide files which should not be uploaded at all. They filter files by their file type. In JUpload, there are predefined file filters for all files, for images and so on. The administrator can create his own file filters, e.g. all Office documents.

3.1.10 Error messages

Error messages are display in modular dialogs. There are error messages about exceeded limits, connection problems or handling errors.

3.2 More help

If you need more help on JUpload, you can browse to the product homepage:

<http://www.jupload.biz/>

3.2.1 Online-Help

Due to space reasons, there is no onliny help in the applet. But there is a list of known parameters and licensing information. You can get the about dialog by clicking on the background under the buttons with the right mouse button.

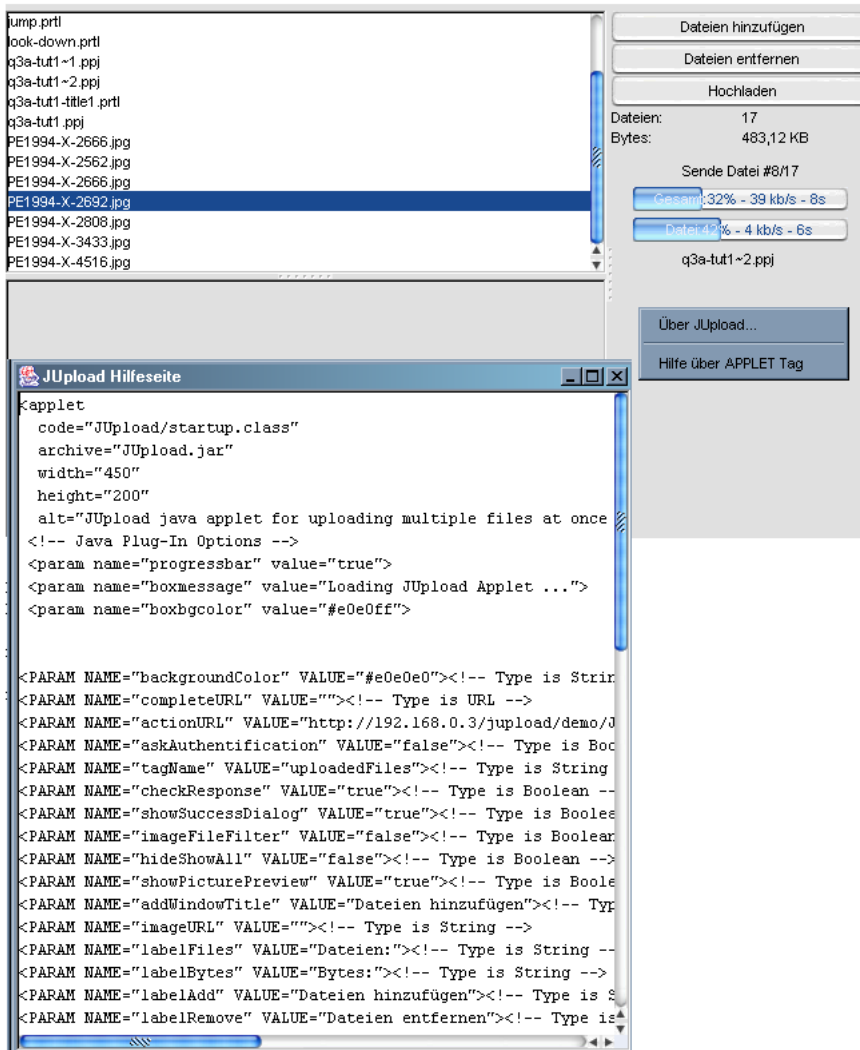


Figure 3.8: Uploading and showing about window

Chapter 4

Developers manual

This section of the manual is for Java developers. They will find descriptions about the internal application structure.

4.1 Programming interface

4.1.1 API JavaDoc

You can find the JavaDoc help in the subfolder *javadoc*. The JavaScript API is described in the administrators section.

4.2 Notes

4.2.1 Protocols

The protocol information can be found here: (<http://www.faqs.org/rfcs/rfc1867.html> und <ftp://ftp.rfc-editor.org/in-notes/rfc2387.txt>).

Details about HTTP protocol (<ftp://ftp.rfc-editor.org/in-notes/rfc2616.txt>)

4.2.2 JavaScript

JavaScript: LiveConnect packet ¹ is not implemented in all browsers:

Browser	Windows ²	Linux ³	Macintosh
<i>Internet Explorer 6</i>	Ok	-	-
<i>Opera 7</i>	Ok	-	-
<i>Mozilla 1.5</i>	Ok	Ok	-
<i>Konqueror</i>	-	Failed	-

"-": not tested.

Access to HTML form fields

If you need to send user inputs with the uploaded files, you can use HTML forms.

¹For developers: included in Netscape Navigator 3.0: java_30.jar

To transfer user inputs, HTML forms are used. These can include text inputs, password fields, check boxes, radio boxes and other inputs and selection. JUpload is able to read the values of these elements via the LiveConnect package.

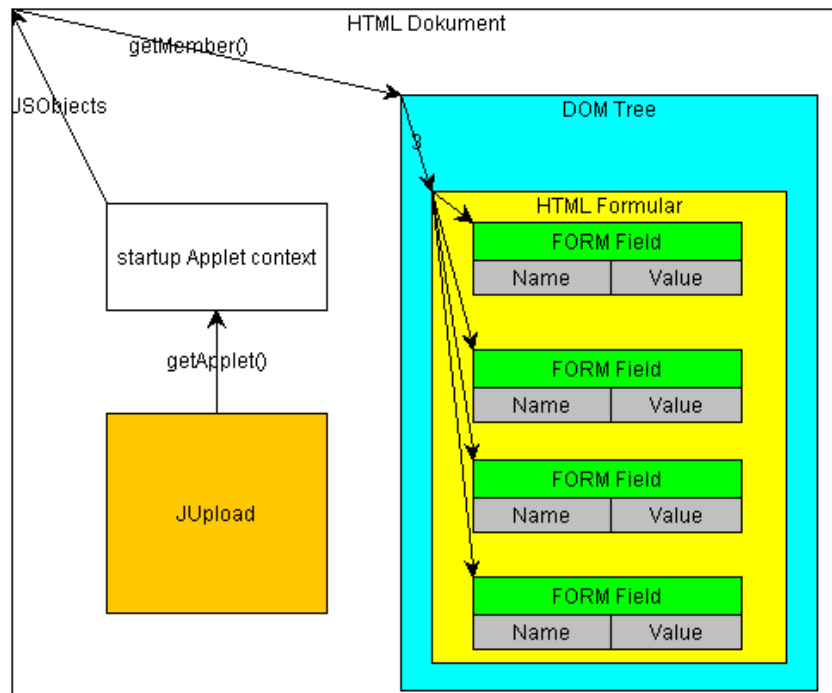


Figure 4.1: Accessing structure for DOM elements

Für Entwickler sieht der Zugriff auf JavaScript Objekte wie folgt aus: This is an example how JUpload uses the LiveConnect package to access the DOM model internally:

```

1 // Get the browser window, the document and the html form
2 JSObject win=parent.applet.jsBrowserWindow;
3 JSObject doc=(JSObject) win.getMember("document");
4 JSObject form=(JSObject) doc.getMember("JUploadForm");
5 JSObject elements=(JSObject) form.getMember("elements");
6
7 // Get the amount of fields
8 Double dnum=new Double(elements.getMember("length").toString());
9 int num=dnum.intValue();
10
11 // Read the fields
12 for (int i=0;i < num;i++) {
13     Object thisSlot=elements.getSlot(i);
14     String fieldName =(String) jsThisSlot.getMember("name");
15     String fieldValue=(String) jsThisSlot.getMember("value");
16 }

```

Chapter 5

Appendix

5.1 Configuration

This is an example how to integrate JUpload into a website:

```
<applet
  code="JUpload.startup"
  archive="jupload.jar"
  width="640"
  height="480"
  mayscript="mayscript"
  name="JUpload"
  alt="JUpload Applet">
<param name="image" value="jupload.gif">
<param name="actionURL" value="http://jupload.biz/demo/jupload.php">
<!-- include additional PARAM tags here -->
</applet>
```

The 'image' can be omitted, and Sun Java Plugin will display the default loader screen. With Sun Java Plugin 1.5.0, there seems to be a problem with CPU usage and OpenGL while displaying the StarLoader image, so you should just replace the image with a blank one, or provide your own (static) image. This will improve the loading time of the applet a lot:

```
<param name="image" value="">
```

The 'mayscript' tag is for enabling the LiveConnect feature, which is a bridge between Java and JavaScript - thus enabling JUpload to communicate with the html document. This is required for two features: reading form variables and replacing the html document with the result page.

The 'name' tag is also used for this LiveConnect feature, and for other applets which make use of JUpload. For example JUpload Progressbar Plugin, or the JUpload Imagepreview Plugin. They are external applets and can be used everywhere on the html page.

code The startup class name of JUpload, this might change slightly in future versions.

archive The name of the archive where JUpload is stored (jupload.jar) as a relative path to the html document. You can also use `'../files/jupload.jar'`

width Sets the width in pixel for the applet. You should not use 0x0 pixel, but instead use 1x1 and a invisible div, if you need to hide the applet.

height Sets the height in pixel for the applet. Width and height cannot be changed after the applet while it's running.

alt Sets an alternative description for the applet (e.g. for blind users)

mayscript This is a keyword to enable JUpload to access JavaScript, and enable the remote control features of JUpload via JavaScript. In newer HTML, you should use `mayscript="mayscript"`

name Sets the name of the JUpload applet in the DOM tree, so you can access it via JavaScript like `document.<name>`

You should not use the applet tag but the *OBJECT* and *EMBED* tags. These two are newer and have much more features.

Mozilla.org shows how to use the OBJECT tag for Mozilla browsers.

```
<OBJECT classid="java:appletname.class" type="application/java"
  codebase="..." archive="..." width="..." height="...">
  <PARAM name="..." value="..." /> [...]
</OBJECT>
```

For a detailed description of the Object-Tag, see the W3C page: (<http://www.w3.org/TR/html401/struct/objects.html#edef-OBJECT>)

This is the common Applet-Tag:

```
<APPLET code="XYZApp.class" codebase="html/" align="baseline"
  width="200" height="200">
<PARAM NAME="model" VALUE="models/HyaluronicAcid.xyz">
  No Java 2 SDK, Standard Edition v 1.3 support for APPLETT!
</APPLET>
```

The following code is an example for the equivalent Java Plug-In tag as you can see it in the documentation of Sun Microsystems:

```
1 <!-- The following code is specified at the beginning of the <BODY> tag. -->
2 <SCRIPT LANGUAGE="JavaScript"><!--
3   var _info = navigator.userAgent; var _ns = false;
4   var _ie = (_info.indexOf("MSIE") > 0 && _info.indexOf("Win") > 0
5     && _info.indexOf("Windows 3.1") < 0);
6   /--></SCRIPT>
7 <!--><SCRIPT LANGUAGE="JavaScript1.1"><!--
8   var _ns = (navigator.appName.indexOf("Netscape") >= 0
9     && ((_info.indexOf("Win") > 0 && _info.indexOf("Win16") < 0
10    && java.lang.System.getProperty("os.version").indexOf("3.5") < 0)
11    || _info.indexOf("Sun") > 0));
12   /--></SCRIPT><!-->
13
14
15 <!-- The following code is repeated for each APPLETT tag -->
16 <SCRIPT LANGUAGE="JavaScript"><!--
17   if (_ie == true) document.writeln('
18 <OBJECT
19   classid="clsid:8AD9C840-044E-11D1-B3E9-00805F499D93"
20   width="200" height="200" align="baseline"
21   codebase="http://java.sun.com/products/plugin/1.3/jinstall-13-win32.cab#Version=1,3,0,0">
22 <NOEMBED><XMP>');
23   else if (_ns == true) document.writeln('
24 <EMBED
25   type="application/x-java-applet;version=1.3" width="200" height="200"
26   align="baseline" code="XYZApp.class" codebase="html/"
27   model="models/HyaluronicAcid.xyz"
```

```

28     pluginspage="http://java.sun.com/products/plugin/1.3/plugin-install.html">
29     <NOEMBED><XMP>');
30     //--></SCRIPT>
31     <APPLET code="XYZApp.class" codebase="html/" align="baseline"
32           width="200" height="200">
33     </XMP>
34     <PARAM NAME="java_code" VALUE="XYZApp.class">
35     <PARAM NAME="java_codebase" VALUE="html/">
36     <PARAM NAME="java_type" VALUE="application/x-java-applet;version=1.3">
37     <PARAM NAME="model" VALUE="models/HyaluronicAcid.xyz">
38     <PARAM NAME="scriptable" VALUE="true">
39     No Java 2 SDK, Standard Edition v 1.3 support for APPLETT!
40 </APPLET></NOEMBED></EMBED>
41 </OBJECT>
42
43 <!--
44 <APPLET code="XYZApp.class" codebase="html/" align="baseline"
45       width="200" height="200">
46 <PARAM NAME="model" VALUE="models/HyaluronicAcid.xyz">
47 No Java 2 SDK, Standard Edition v 1.3 support for APPLETT!
48 </APPLET>
49 -->

```

5.1.1 Plug-In Settings

Here you can find param settings for the behaviour of the Java Plugin:

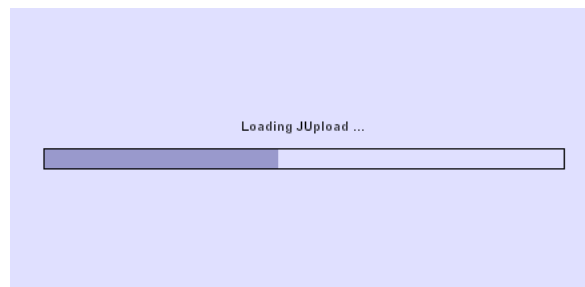


Figure 5.1: Loading process with progressbar and boxmessage

progressBar Enables the progress bar while loading the jar file from the webserver.

```
<param name="progressbar" value="true">
```

boxmessage Sets the displayed message while loading the jar file.

```
<param name="boxmessage" value="Loading JUpload Applet ...">
```

boxbgcolor Set a background color for the applet frame.

```
<param name="boxbgcolor" value="#e0e0ff">
```

image Sets a new loader splash screen

```
<param name="image" value="jupload_loading.gif">
```

For Sun Java Plug-In 1.5.0 users, which have CPU usage problems, you should set this to an empty image. This greatly improves loading time.

```
<param name="image" value="">
```

5.1.2 JUpload Parameters

A list of available parameters to customize the product:

actionURL Address of the server-side script which will process the uploaded files. This can be an absolute URL or a relative URL (relative to the code base of the applet). It's possible to append a query string or any other GET parameters to the URL (e.g. for transmitting a session id). HTTP and HTTPS are supported protocols, as well as different ports. Note that most webservers are case-sensitive.

```
<param name="actionURL" value="http://localhost/demo/JUpload.php">
```

completeURL Set the URL where the browser is redirected after a finished upload process. Same rules as for the actionURL.

```
<param name="completeURL" value="http://www.example.com/upload-ok.html">
```

errorURL Set the URL where the browser is redirected, when JUpload reports any upload errors from the server-side.

```
<param name="errorURL" value="http://www.example.com/upload-error.html">
```

debug Switch on debug mode. This will print out much debug stuff on the Java Console and possibly write a logfile. see debugLogfile parameter

```
<param name="debug" value="true">
```

debugLogfile Sets a file name for the debug log filename.

```
<param name="debugLogfile" value="c:/jupload.log">
```

askAuthentication This setting tells JUpload to ask the user for a username and a password. The authentication information will be sent via basic method to a secured URL on the webserver (e.g. if you have secured the upload folder with a .htaccess file). Can also be used if a proxy needs authentication in this way.

```
<param name="askAuthentication" value="false">
```

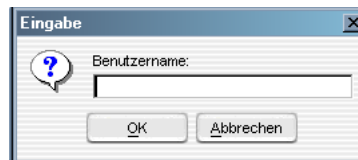


Figure 5.2: Input dialog for the askAuthentication parameter

tagName This is the name for the POST variable where the files are stored. It defaults to uploadedFiles. JUpload will append an increasing number to the end of this string for each file uploaded (like uploadedFiles0, uploadedFiles1, uploadedFiles2 etc.)

```
<param name="tagName" value="uploadedFiles">
```

checkResponse Enable the check of the http server response.

```
<param name="checkResponse" value="true">
```

showSuccessDialog Shows a dialog to the user when the upload process has finished.

```
<param name="showSuccessDialog" value="true">
```



Figure 5.3: Successful upload

imageFileFilter Enable the file type filter in the Add files dialog for images, pictures.

```
<param name="imageFileFilter" value="false">
```

hideShowAll Disable the file type filter for "All files".

```
<param name="hideShowAll" value="false">
```

backgroundColor Sets the main background color for the applet

```
<param name="backgroundColor" value="#e0e0ff">
```

showPicturePreview Enables the picture preview in the Add files dialog.

```
<param name="showPicturePreview" value="false">
```

addWindowTitle Set a customized title for the Add files dialog.

```
<param name="addWindowTitle" value="Dateien auswählen">
```

imageURL Specify an URI with an Image which will be display in the applet. Can be used for branding the applet with your logo.

```
<param name="imageURL" value="../images/applet-logo.gif">
```

labelFiles Set the text for the amount of files label.

```
<param name="labelFiles" value="Dateien:">
```

labelBytes Sets the text for the size of the upload

```
<param name="labelbytes" value="Größe:">
```

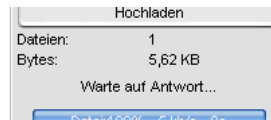


Figure 5.4: The labels for files and sizes

labelAdd Set the text for the add button

```
<param name="labelAdd" value="Hinzufügen">
```

labelRemove Set the text for the remove button

```
<param name="labelRemove" value="Entfernen">
```

labelUpload Set the text for the upload button

```
<param name="labelUpload" value="Hochladen">
```

successDialogMessage Set the text for the successful upload dialog.

```
<param name="successDialogMessage" value="Hochladen war erfolgreich">
```

successDialogTitle Set the title for the successful upload dialog.

```
<param name="successDialogTitle" value="Alles Okay!">
```

addToolTip Set the tooltip text for the add button.

```
<param name="addToolTip" value="Klicken um Dateien hinzuzufügen">
```

removeToolTip Set the tooltip text for the remove button.

```
<param name="removeToolTip" value="Klicken um Dateien zu entfernen">
```

uploadToolTip Set the tooltip text for the upload button.

```
<param name="uploadToolTip" value="Klicken um gewählte Dateien zu übertragen">
```

useRecursivePaths Enables the feature to support recursive (and relative) path information. The path information will be coded into the Content-Type field of the upload. The reason for this is that many webserver will remove the path information from uploaded files for security reasons. The encoding is very simple and can be decoded easily with the PHP function `base64_decode($strEncodedPath)`

```
<param name="useRecursivePaths" value="true">
```

checkJavaVersion Checks for the installed java version before trying to run.

```
<param name="checkJavaVersion" value="true">
```

checkJavaVersionGotoURL If the java version is not sufficient for the applet, go to this URL.

```
<param name="checkJavaVersionGotoURL" value="http://www.java.com/">
```

browserCookie With this tag you can set a cookie value, which will be transferred to the server. This can be used for server session ids, which cannot be used in the query-field or in form fields. You must fill this parameter via JavaScript:

```
document.write('<param name=browserCookie value="');
document.write(document.cookie);
document.writeln('>');
```

JUpload can not access the cookies in the browser directly.

defaultAddDirectory Sets a starting directory for the Add files dialog.

```
<param name="defaultAddDirectory" value="c:/dateien">
```

usePutMethod Enables the PUT method. Please read the chapter about the PUT method for details on this superb transfer method, which supports file upload resuming and unlimited file sizes.

```
<param name="usePutMethod" value="true">
```

maxFreeSpaceOnServer Sets the maximum size of the total request.

```
<param name="maxFreeSpaceOnServer" value="2000000">
```

maxFreeSpaceOnServerWarning Warning message when the limit is exceeded.

```
<param name="maxFreeSpaceOnServerWarning" value="Ihr Server-Account ist überfüllt!">
```

maxFreeSpaceOnServerTitle Title of the above warning message.

```
<param name="maxFreeSpaceOnServerTitle" value="Serverplatz reicht nicht aus">
```

maxTotalRequestSize Sets a maximum size of a single request. If a request exceeds this limit, it will be splitted into multiple smaller requests. A single file size can not exceed this value.

```
<param name="maxTotalRequestSize" value="2000000">
```

maxTotalRequestSizeWarning The warning message for the total request size limit.

maxTotalRequestSizeTitle The warning title for the total request size limit.

customFileFilter Enables a customized file filter.

```
<param name="customFileFilter" value="true">
```

customFileFilterDescription Sets the descriptive text for the customized file filter.

```
<param name="customFileFilterDescription" value="Bilddateien (Jpeg und GIF)">
```

customFileFilterExtensions Sets a list of file extensions for this custom file filter, separated with commas.

```
<param name="customFileFilterExtensions" value="gif, jpg, jpeg">
```

maxNumberFiles Sets the maximum number of files to be uploaded.

```
<param name="maxNumberFiles" value="1000">
```

maxNumberFilesWarning Warning message for the maxNumberFiles limit.

maxNumberFilesTitle Warning title for the maxNumberFiles limit.

fixJakartaBug If you experience problems using the jakarta-fileupload package, please try to use this parameter settings.

```
<param name="fixJakartaBug" value="false">
```

maxFilesPerRequest Sets the maximum amount of files in a single request.

showServerResponse Enables the display of the server response

```
<param name="showServerResponse" value="true">
```

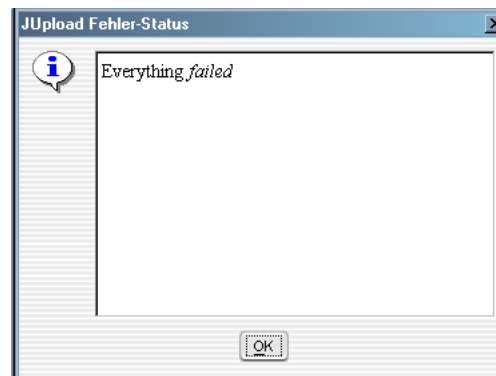


Figure 5.5: Window with a html response

if the server response is disabled, the response will be displayed in the realtime response window:

preselectedFiles Sets a list of files which will be marked for upload on start of the applet.

```
<param name="preselectedFiles"
value="d:/webcam1.jpg;d:/webcam2.jpg">
```



Figure 5.6: Error message in the realtime response window

realTimeResponse Enables the realtime response window in the lower left corner. This displays the server-side output of the script as simple html. It can display server results in realtime, that means while they are printed out, if the server does not use any output buffering. In PHP, you can use it with the flush() function.

```
<param name="realTimeResponse" value="false">
```

mainSplitpaneLocation Sets the position of the main slider (from left border, in pixel)

```
<param name="mainSplitpaneLocation" value="450">
```

leftSplitpaneLocation Sets the position of the left slider (from top border, in pixel)

```
<param name="leftSplitpaneLocation" value="250">
```

hideAddButton Hides the add button.

```
<param name="hideAddButton" value="true">
```

hideRemoveButton Hides the remove button.

hideUploadButton Hides the upload button.

showStatusPanel Switch on or off the right status information panel.

```
<param name="showStatusPanel" value="false">
```

skinThemePackURL Set an address to a compressed theme pack for the SkinLF feature. Note that you need to include the skinlf.jar package in the codebase for this feature to work.

```

<applet ...
  archive="skinlf.jar,jupload.jar"
  ... alt="JUupload Applet">
<param name="skinThemePackURL" value="aquathemepack.zip">
</applet>

```

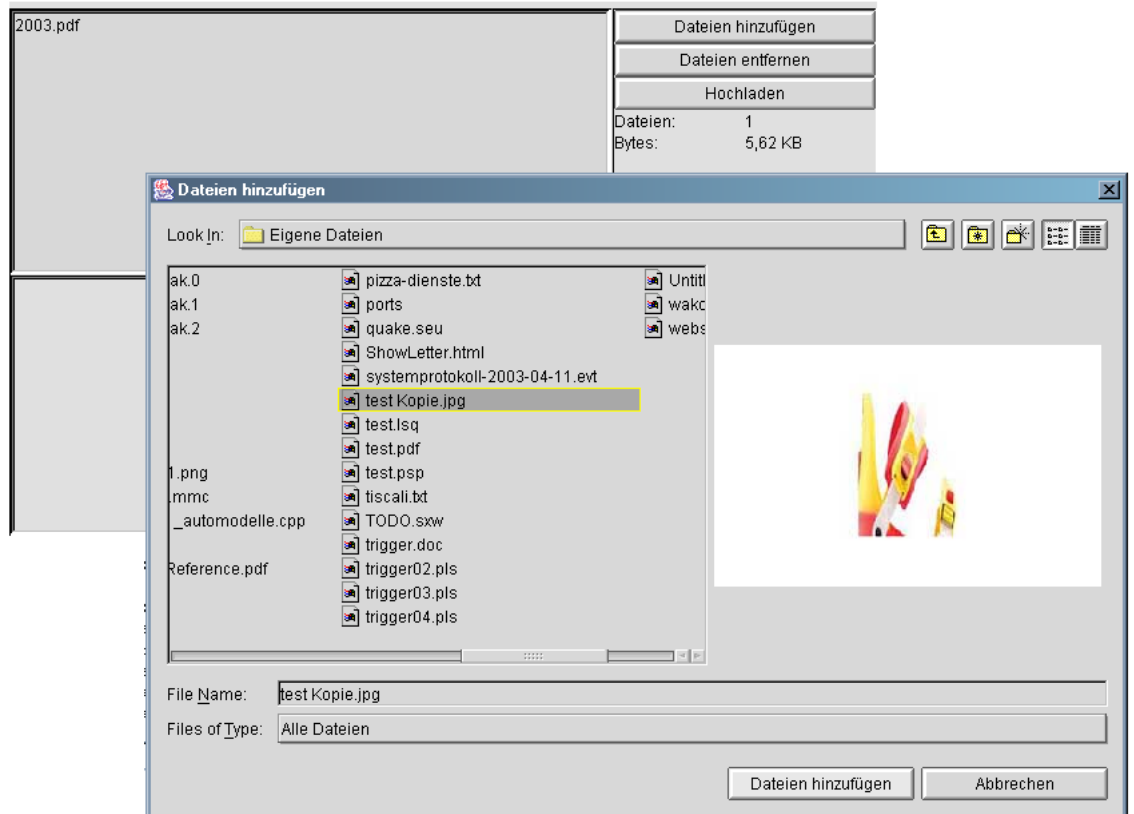


Figure 5.7: You can easily customize the applet with skins

useProxy Force the use of the proxy servers as set in the Java Plugin or the browser itself.

```
<param name="useProxy" value="false">
```

showThumbnails Enable or disable the thumbnails in the file queue.

```
<param name="showThumbnails" value="false">
```

targetFrame Sets the target frame for the completeURL feature. The new page will be directed to the html frame with the specified target name. Use `_blank` to open the document in a new window.

```
<param name="targetFrame" value="MyLeftFrame">
```

useAbsolutePath Switch to enable transmission of absolute path information. Defaults to false: no absolute but relative path information is bundled with the uploaded files. Relative path information relates to the current working directory, from which the user has added subfolders. Note: you must use enable useRecursivePaths for this to work.

```
<param name="useAbsolutePath" value="false">
```

showSystemIcons Will display the operating system's default icons for the files, instead of self-generated thumbnails. Note: since v0.79

```
<param name="showSystemIcons" value="true">
```

preventDoubles If enabled, will prevent the user from adding the same file twice to the upload queue. Note: since v0.79

```
<param name="preventDoubles" value="true">
```

preventRecursion Will prevent the user from adding a folder to the upload queue (adding a folder means a recursive add) Note: since v0.79

```
<param name="preventRecursion" value="false">
```

showFilePaths Shows the complete file paths, instead of only the filename part. Note: since v0.79

```
<param name="showFilePaths" value="false">
```

lookAndFeelClass Initializes a third-party look-and-feel manager. For SkinLF, you must use this class name:

```
com.l2fprod.gui.plaf.skin.SkinLookAndFeel
```

and do not forget to set a themepack. Note: since v0.79

```
<param name="lookAndFeelClass" value="com.mylnfmgr.example.InitClass">
```

PUTQueryString Adds an additional query string to the PUT actionURL. Note: since v0.79

```
<param name="PUTQueryString" value="sessionId=123345678">
```

overwriteContentType If set to true, it will overwrite the content type with a special base64-encoded string containing the relative path of the uploaded file. If set to false, it will use the normal content type. Note: since v0.79

```
<param name="overwriteContentType" value="false">
```

usePresetAuthentication Use this string as pre-configured login information for protected upload site. You can use this if your user is already logged in, and the upload actionURL is protected. This will prevent the applet from asking the user for a login name and a login password. The string is base64 and has the following format:

```
username:password
```

Note: since v0.79

```
<param name="usePresetAuthentication" value="SnjFD8dfjkDFjd8==">
```

disableContextMenu Disables the context menu (right click on the applet background). The context menu contains the About window and a Help window, which shows all configuration parameters for JUpload, which are not very useful for end-users. Note: since v0.80

```
<param name="disableContextMenu" value="false">
```

PUTFragmentSize Configures the maximum packet size of a single PUT upload request. This is now set to 1 Gigabyte, so most files can be uploaded in one step. If the connection closes while the upload process has not yet been finished, the server should have stored the previous contents, so the upload can be resumed. Note: since v0.80

```
<param name="PUTFragmentSize" value="1073741824">
```

captureScreen This is for debugging only and should not be used on productive systems. Note: since v0.80

```
<param name="captureScreen" value="false">
```

dimensionFilter This is a filter expression to accept (or permit) images with configured image dimensions (width and height are currently supported). With this boolean expression, you can filter images to be added into the JUpload upload queue. The syntax uses the standard boolean operators AND and OR and the numerical operators greater-than, lesser-than and equal (<,>=) Note: since v0.80 This example will only allow images between 640x480 and 1024x768 (including), non-image files (-1 x -1) and images that are rotated (480x640 <= 768x1024).

```
<param name="dimensionFilter"
value="((width>=640 and width<=1024) and
(height>=480 and height <= 768)) or
((width>=480 and width<=768) and
(height>=640 and height <= 1024)) or
(width=-1 and height=-1)">
```

alwaysAcceptCertificates Enabling this setting will prevent the certificate warning from showing up, before opening the connection to the server. It will always accept the server certificate, no matter of the trust level.

```
<param name="alwaysAcceptCertificates" value="false">
```

foregroundColor This sets the foreground color to be used for text displayed in the applet's graphical user interface. Note: since v0.80, defaults to the look'n'feel foreground color

```
<param name="foregroundColor" value="#ff0000">
```

autoselectLastFile The autoselection will automatically select the last file added to the queue and is enabled by default. Note: since v0.80

```
<param name="autoselectLastFile" value="true">
```

autoGZipCompression GZIP compression is also enabled by default and will try to automatically compress transferred data with the common GZIP algorithm, which is supported by most webservers. Note: since v0.80

```
<param name="autoGZipCompression" value="true">
```

filechooserPreviewChecked Sets the initial state of the preview-checkbox in the file-chooser dialog. If you don't want the picture preview to be enabled on startup of the applet, you can set this to false. Note: since v0.80

```
<param name="filechooserPreviewChecked" value="true">
```

filechooserPreviewQuality Sets the initial state of the smooth-checkbox in the file-chooser preview. Default value is to use a fast, but low-quality rendering mechanism. No anti-aliasing or smoothing is used while rescaling the selected image to the preview box. Setting this feature to 'true', it will use a slower, but much nicer algorithm, which makes use of anti-aliasing. The result are better looking preview images. Note: since v0.80

```
<param name="filechooserPreviewQuality" value="true">
```

replaceDocument Enabling this will tell JUpload to automatically replace the current html document in the browser with the one sent by the server. It's disabled by default, as the result is displayed in the realtime response window in the lower left of the applet by default. Replacing the current html document requires a small javascript function in the html document, and JUpload being enabled for the LiveConnect feature (Java to JavaScript bridge) Note: since v0.80 This is the code which must be included in the HEAD tag of the html document:

```
<script type="text/javascript">
  <!--
    function replaceDocument(content) {
      document.open("text/html", "replace");
      document.write(content);
      document.close();
    }
  //-->
</script>
```

The JavaScript function must be named 'replaceDocument' and must have one argument - a string containing the whole replacement document. And this parameter can be used to activate the feature in JUpload:

```
<param name="replaceDocument" value="true">
```

Attention: replacing an active document containing an applet might crash some browsers.

sendLastModificationDate Enables the transmission of the last modification date of a uploaded file in the HTTP MIME Header. Sometimes, this confuses webservers. Therefor, you can disable this feature by setting it to false.

```
<param name="sendLastModificationDate" value="false">
```

skipNewlineAfterHeader Settings this to true skips the newline character after sending the MIME header. Sometimes, the extra newline which is sent by default is confusing the webserver. Set this to true to omit the extra newline.

```
<param name="skipNewlineAfterHeader" value="false">
```

thumbWidth The width in pixel of thumbnails displayed in the queue window.

```
<param name="thumbWidth" value="32">
```

thumbHeight The height in pixel of thumbnails displayed in the queue window.

```
<param name="thumbHeight" value="32">
```

regexFileFilter A filename filter for adding files to the queue based on regular expressions.

```
<param name="regexFileFilter" value="([a-z0-9])*\.jpg|.gif">
```

convertImagesToFormat Converts image files added to the queue automatically into the given image format. Possible values are jpg, gif, png (formats supported by Java 2)

```
<param name="convertImagesToFormat" value="jpg">
```

resizeImageMaxWidth Automatically resize images to the given size. This parameter sets a maximum width. Images are scaled with aspect ratio kept and smooth filtering enabled.

```
<param name="resizeImageMaxWidth" value="320">
```

resizeImageMaxHeight Automatically resize images to the given size. This parameter sets a maximum height. Images are scaled with aspect ratio kept and smooth filtering enabled.

```
<param name="resizeImageMaxHeight" value="240">
```

removeBorders Removes some border lines from the graphical user interface of the applet. This can be used to better integrate it into the design of the underlying website.

```
<param name="removeBorders" value="false">
```

showErrorsOnAdd Display an error dialog, listing all errors while adding files. Can be disabled by setting this parameter to false.

```
<param name="showErrorsOnAdd" value="true">
```

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Bibliography

- [1] **E. Nebel, L. Masinter** (1995), "Form-based File Upload in HTML",
<http://www.faqs.org/rfcs/rfc1867.html>
- [2] **E. Levinson** (1998), "The MIME Multipart/Related Content-type",
<ftp://ftp.rfc-editor.org/in-notes/rfc2387.txt>
- [3] **R. Fielding, J. Gettys, J. Mogul et al.** (1999), "Hypertext Transfer Protocol – HTTP/1.1",
<ftp://ftp.rfc-editor.org/in-notes/rfc2616.txt>
- [4] **Keld Simonsen et al.** (1990-1996), "Code for the representation of names of languages",
<http://ftp.ics.uci.edu/pub/ietf/http/related/iso639.txt>
- [5] **Maintenance Agency for ISO 3166 country codes** (1999), "ISO 3166 Codes (Countries)",
<http://www.iso.org/iso/en/prods-services/iso3166ma/index.html>
- [6] **Philippe Le Hégaré et al.** (2002), "Document Object Model (DOM)",
<http://www.w3.org/DOM/>
- [7] **Dave Raggett et al.** (1999), "HTML 4.01 Specification",
<http://www.w3.org/TR/html401/struct/objects.html#edef-OBJECT>