

# Installation Guide

## Apparo Fast Edit

### Multi Instance

#### 3.1

Linux & IBM AIX / Standalone version



|          |  |           |
|----------|--|-----------|
| <b>1</b> | <b><i>Prior to Installation</i></b>                                  | <b>4</b>  |
| 1.1      | Hardware requirements .....  | 4         |
| 1.2      | Supported operating systems .....                                    | 4         |
| 1.3      | Supported web server .....   | 4         |
| 1.4      | Supported virtual environments.....                                  | 4         |
| 1.5      | Supported security systems.....                                      | 4         |
| 1.6      | Installation strategy .....  | 5         |
| 1.7      | Architecture.....  | 6         |
| <b>2</b> | <b><i>Preparation</i></b>  | <b>8</b>  |
| 2.1      | Creation of a database user for the Apparo repository .....          | 9         |
| 2.2      | Defining the security group for all Apparo Administrators users..... | 10        |
| <b>3</b> | <b><i>Installation of all Apparo application servers</i></b>         | <b>11</b> |
| 3.1      | License agreement .....  | 13        |
| 3.2      | Selecting the architecture .....                                     | 14        |
| 3.3      | Defining the target file directory .....                             | 15        |
| 3.4      | Carrying out the installation .....                                  | 16        |
| 3.5      | Installation finish .....  | 16        |
| <b>4</b> | <b><i>Configuration of all Apparo application servers</i></b>        | <b>18</b> |
| 4.1      | Architecture.....  | 20        |
| 4.2      | Application server.....  | 20        |
| 4.3      | File system paths .....  | 21        |
| 4.4      | Security .....   | 22        |
| 4.5      | eMail security system .....  | 23        |
| 4.6      | Repository .....   | 24        |
| 4.7      | License key .....  | 25        |
| <b>5</b> | <b><i>Installation of the Apparo gateway</i></b>                     | <b>27</b> |
| 5.1      | License agreement .....  | 29        |
| 5.2      | Selecting the architecture .....                                     | 30        |
| 5.3      | Defining the target file directory .....                             | 31        |
| 5.4      | Carrying out the installation .....                                  | 32        |
| 5.5      | Installation finish .....  | 32        |
| <b>6</b> | <b><i>Configuration of the Apparo gateway</i></b>                    | <b>33</b> |
| 6.1      | Architecture.....  | 36        |
| 6.2      | List of application servers.....                                     | 36        |
| 6.3      | Configuration of the Apache web server with ajp proxy .....          | 37        |

|           |   |           |
|-----------|---|-----------|
| 6.4       | Open the portal .....   | 39        |
| <b>7</b>  | <b>Configuration Manager using command line</b> _____                   | <b>42</b> |
| <b>8</b>  | <b>Import/Export definitions using command line</b> _____               | <b>43</b> |
| 8.1       | Importing definitions .....   | 43        |
| 8.2       | Exporting definitions.....  | 44        |
| <b>9</b>  | <b>Start-up of Apparo Fast Edit without Configuration Manager</b> _____ | <b>45</b> |
| <b>10</b> | <b>Starting of Apparo Configuration Manager</b> _____                   | <b>46</b> |
| <b>11</b> | <b>The Apparo system log</b> _____                                      | <b>47</b> |
| <b>12</b> | <b>Online documentation</b> _____                                       | <b>48</b> |
| <b>13</b> | <b>Browser requirements</b> _____                                       | <b>49</b> |
| 13.1      | Supported browsers and versions.....                                    | 49        |
| 13.2      | Supported operating systems for client browsers .....                   | 49        |
| 13.3      | Additional settings for Microsoft Internet Explorer only.....           | 49        |
| 13.4      | Additional settings for all browsers .....                              | 50        |
| <b>14</b> | <b>Support</b> _____  | <b>51</b> |

## 1 Prior to Installation

Installing Apparo Fast Edit can be done in 1 hour if you prepare your environment. Please be aware of the following points before starting installation:

### 1.1 Hardware requirements

**File system:** about 600 MB  
**Main memory:** about 2000 MB

### 1.2 Supported operating systems

- Linux 64 Bit
- IBM AIX

### 1.3 Supported web server

- Apache web server 2.4

### 1.4 Supported virtual environments

- VMware ESX/ESXi

### 1.5 Supported security systems

- LDAP
- MS Active Directory

Apparo Fast Edit must be installed using a **root** account.

This version is running only on the *Apache Tomcat 7 Application Server*. This Tomcat server will be installed automatically.

## 1.6 Installation strategy

Following steps are necessary in this order:

|                 |  |
|-----------------|--|
| <p><b>1</b></p> | <p><b>Database preparation for Apparo repository</b><br/>Defining a security group „Apparo Administrators“ for full access</p> |
| <p><b>2</b></p> | <p><b>Installation and configuration of all Apparo application servers</b></p>   |
| <p><b>3</b></p> | <p><b>Installation and configuration of the Apparo gateway including web server</b></p>  |

## 1.7 Architecture

Possible Apparo Fast Edit architectures:

|                 |  |
|-----------------|--|
| <p><b>1</b></p> | <p><b>Single Instance</b>, your existing environment is installed on <b><u>one computer only – that’s suitable for testing too.</u></b></p> <p>A „Single Instance“ is useful for small environments or test systems.</p>   |
| <p><b>2</b></p> | <p><b>Multi Instance</b>, one or more Apparo gateways and one or more Apparo application servers are installed on one or more hosts.</p> <p>A „Multi Instance“ is useful for better performance and high availability.</p> |

This document is describing the installation and configuration process for a **Multi Instance.**

|                 |   |
|-----------------|---|
| <p><b>1</b></p> | <p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>• Analysing environment</li> <li>• Creation of a <b>database user</b> for the Apparo repository</li> <li>• Defining the <b>security group</b> for all users that must be able to open the Apparo Designer</li> </ul> |
| <p><b>2</b></p> | <p><b>Installation of all Apparo application servers</b></p>  |
| <p><b>3</b></p> | <p><b>Configuration of all Apparo application servers</b><br/>Configuration using the Apparo Configuration Manager</p>  |
| <p><b>4</b></p> | <p><b>Installation of the Apparo gateway</b></p>  |
| <p><b>5</b></p> | <p><b>Configuration of the Apparo gateway</b><br/>Configuration the web server and the Apparo gateway using the Apparo Configuration Manager</p>  |
| <p><b>6</b></p> | <p><b>Installing clients</b><br/>Installing the clients in Apparo Designer</p>  |

## 2 Preparation

|          |   |
|----------|---|
| <b>1</b> | <p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>• Analysing environment</li> <li>• Creation of a <b>database user</b> for the Apparo repository</li> <li>• Defining the <b>security group</b> for all users that must be able to open the Apparo Designer</li> </ul> |
| <b>2</b> | <p><b>Installation of all Apparo application servers</b></p>  |
| <b>3</b> | <p><b>Configuration of all Apparo application servers</b><br/>Configuration using the Apparo Configuration Manager</p>  |
| <b>4</b> | <p><b>Installation of the Apparo gateway</b></p>  |
| <b>5</b> | <p><b>Configuration Apparo gateway</b><br/>Configuration the web server and the Apparo gateway using the Apparo Configuration Manager</p>   |
| <b>6</b> | <p><b>Installing clients</b><br/>Installing the clients in Apparo Designer</p>  |

## 2.1 Creation of a database user for the Apparo repository

Apparo Fast Edit requires a Database repository. In this repository all of your definitions are stored.

Following databases are supported:

- Oracle 10g – 12c
- IBM DB/2 9-11.1
- MS SQL Server 2005-2016

This database user must be defined **before** starting the Apparo Fast Edit setup.  
You can find a detailed description in the document “Installation – creating database repository”.

### Essential grants:

- The database user must be able to create database tables
- A Login with this user must be possible

## 2.2 Defining the security group for all Apparo Administrators users

In order to be able to open Apparo Designer with full access the user must be member of an Apparo Administrators group.

- Define a new group called **Apparo Administrators** in the used security system, for example MS Active Directory
- Add for example the **root** user into this group. Later this user is able to open the Apparo Designer with full access

### 3 Installation of all Apparo application servers

|          |   |
|----------|---|
| <b>1</b> | <p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>• Analysing environment</li> <li>• Creation of a <b>database user</b> for the Apparo repository</li> <li>• Defining the <b>security group</b> for all users that must be able to open the Apparo Designer</li> </ul> |
| <b>2</b> | <b>Installation of all Apparo application servers</b>   |
| <b>3</b> | <p><b>Configuration of all Apparo application servers</b></p> <p>Configuration using the Apparo Configuration Manager</p>   |
| <b>4</b> | <b>Installation of the Apparo gateway</b>   |
| <b>5</b> | <p><b>Configuration of the Apparo gateway</b></p> <p>Configuration the web server and the Apparo gateway using the Apparo Configuration Manager</p>   |
| <b>6</b> | <p><b>Installing clients</b></p> <p>Installing the clients in Apparo Designer</p>   |

Start the Installation by execute the file

**FastEdit3.1.x.y.zzz\_linux\_tomcat\_standalone.sh** for a 64 Bit-only environment.

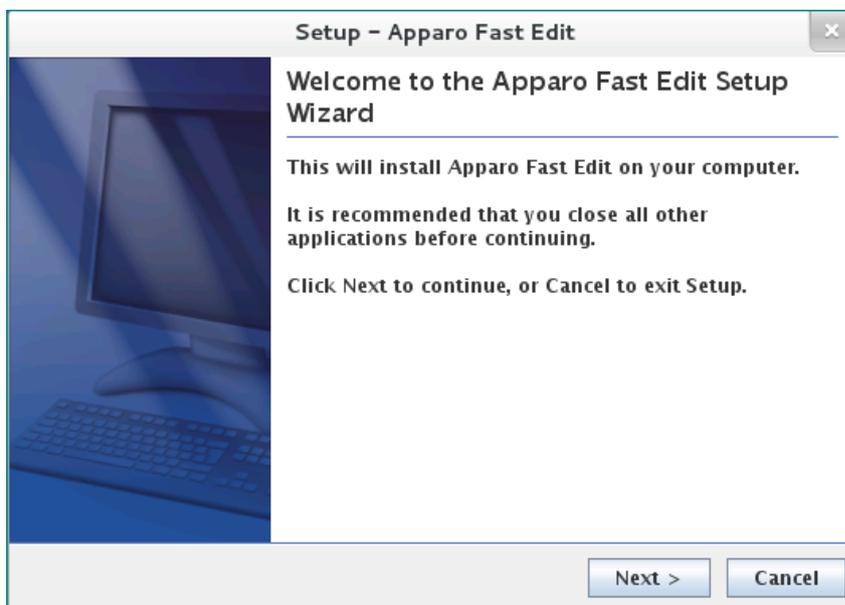
Or for IBM AIX:

**FastEdit3.1.x.y.zzz\_aix\_tomcat\_standalone.sh** for a 64 Bit-only environment.

Please use the chmod command: `chmod 777 FastEdit*.sh`

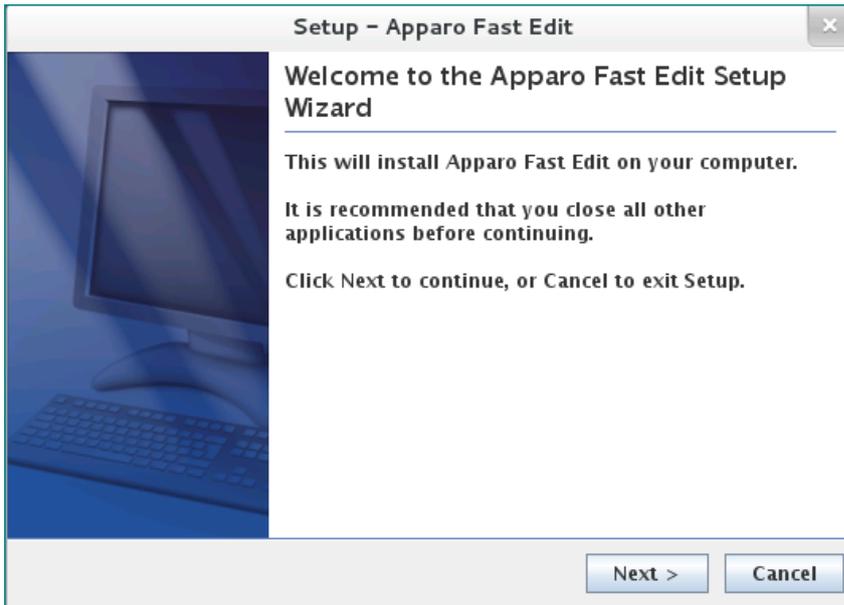
**The graphical UI (X Window) is preferred but not necessary.**  
You can run the Fast Edit setup in text mode too.

**The Apparo Configuration Manager is running in graphical mode only.**



Confirm the beginning of the installation by clicking „**Next**“.

### 3.1 License agreement



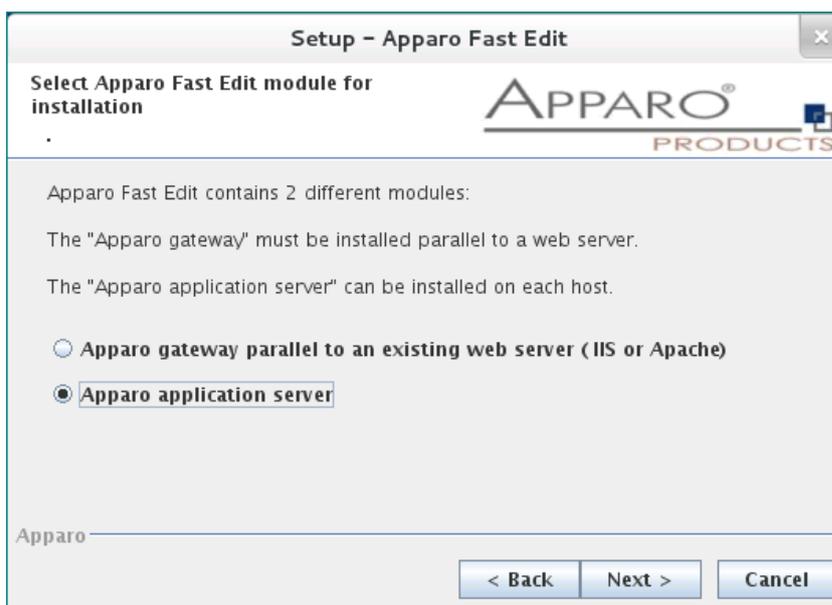
Read and confirm the license agreement by clicking „**Next**“.

### 3.2 Selecting the architecture



Select **“Multi Instance”** and choose **„Next“**.

Now it's the time to choose the Apparo application server.

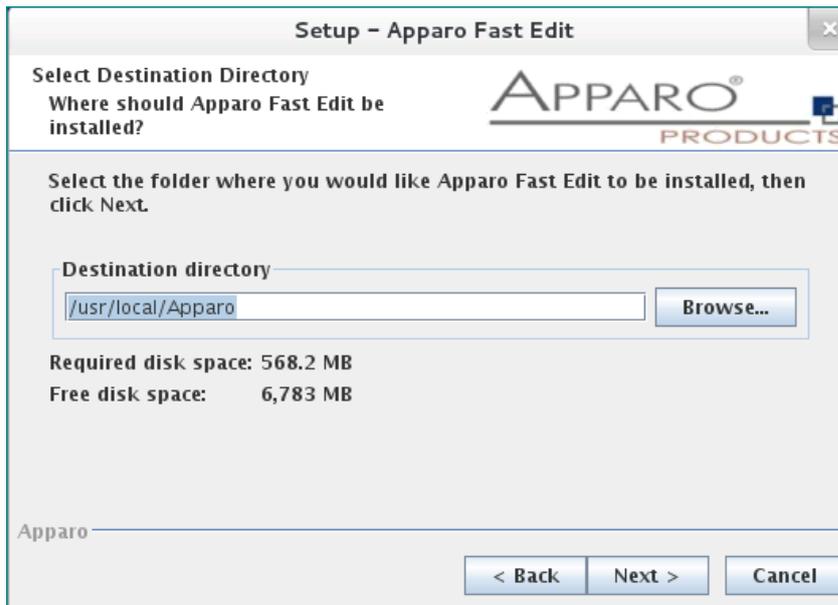


Select

- **Apparo gateway**  
The Gateway must be installed parallel to the web server
- **Apparo application server**  
If you want to install the Apparo application server

Please select **“Apparo application server”** and choose **„Next“**.

### 3.3 Defining the target file directory

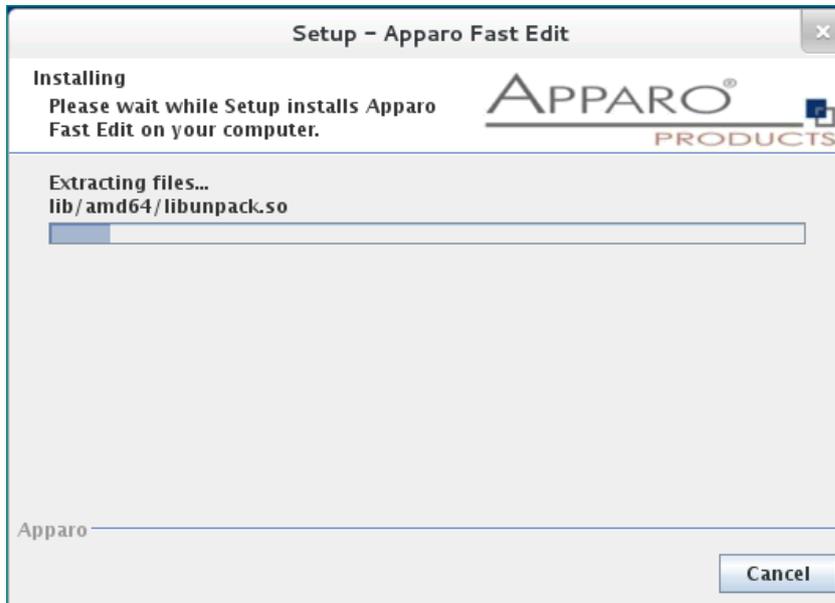


Default path is: **`/usr/local/Apparo`**

Please define the path and choose „**Next**“.

### 3.4 Carrying out the installation

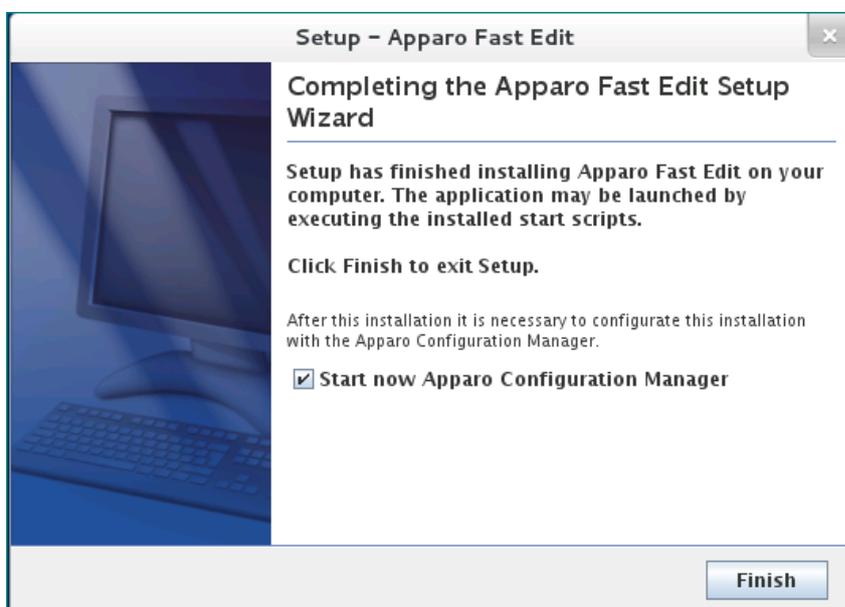
Finally the installation of Apparo Fast Edit with the selected architecture will start. After that this installation must be configured with the **Apparo Configuration Manager**.



### 3.5 Installation finish

Output in a Linux environment:

If an IBM AIX environment the checkbox is not visible because the JAVA\_HOME variable must be defined first.



Now it's time to **configure** the installation with the **Apparo Configuration Manager**.

Click „**Finish**“ for completing the installation and to start the configuration.

**For IBM AIX:**

Please check that Java 7 Release 1 is already installed, default file directory: /usr/java71\_64

Please check that variable JAVA\_HOME and PATH are correctly set to support this java vm.

Next step:

Go into folder [APPARO\_HOME]/FastEdit/cm

Start script:

./cm.sh

## 4 Configuration of all Apparo application servers

|          |   |
|----------|---|
| <b>1</b> | <p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>• Analysing environment</li> <li>• Creation of a <b>database user</b> for the Apparo repository</li> <li>• Defining the <b>security group</b> for all users that must be able to open the Apparo Designer</li> </ul> |
| <b>2</b> | <p><b>Installation of all Apparo application servers</b></p>  |
| <b>3</b> | <p><b>Configuration of all Apparo application servers</b><br/>Configuration using the Apparo Configuration Manager</p>  |
| <b>4</b> | <p><b>Installation of the Apparo gateway</b></p>  |
| <b>5</b> | <p><b>Configuration of all Apparo gateways</b><br/>Configuration the web server and the Apparo gateway using the Apparo Configuration Manager</p>   |
| <b>6</b> | <p><b>Installing clients</b><br/>Installing the clients in Apparo Designer</p>  |

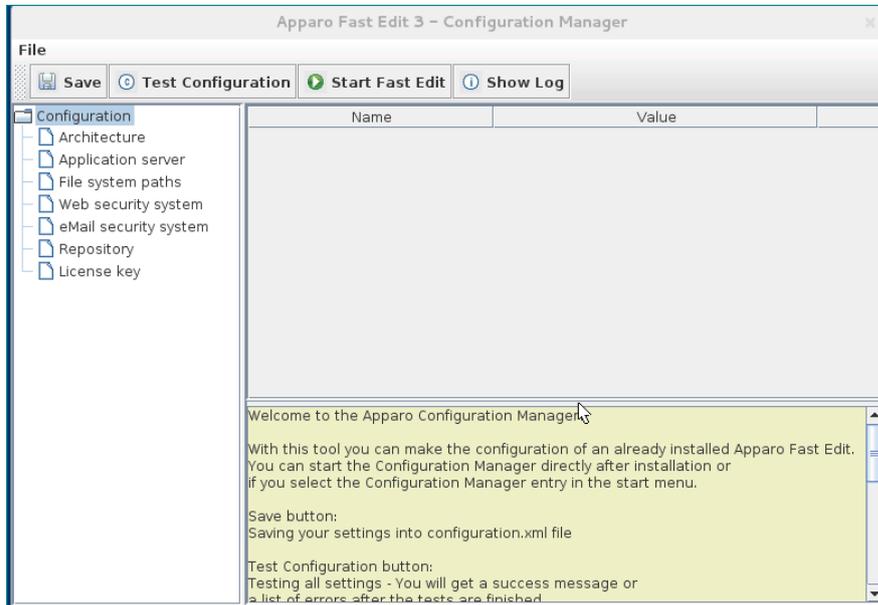
With the Apparo Configuration Manager you are able to configure the already installed Apparo Fast Edit.

**You can now configure for the selected architecture all necessary settings.**

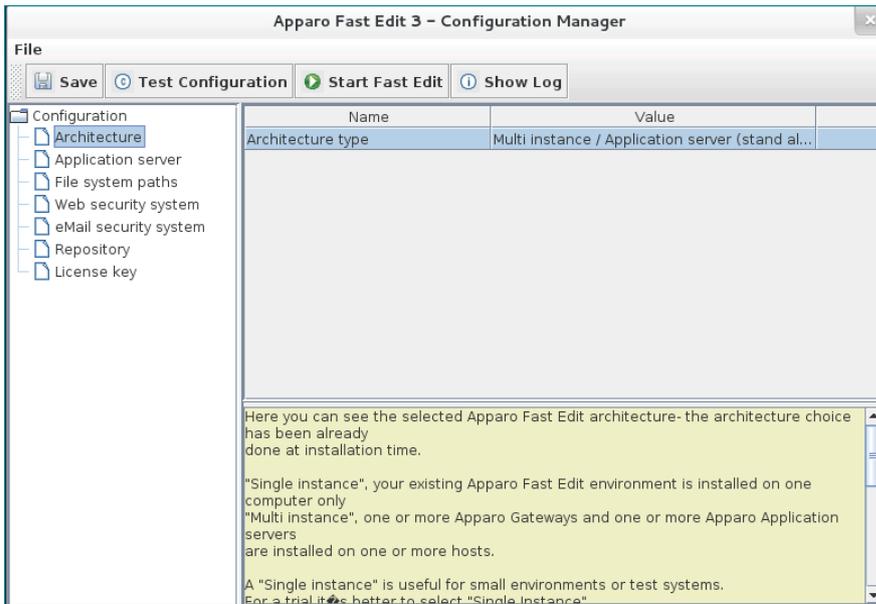
The settings are grouped into chapters (left side).

**For each setting you can read a helpful description text in the yellow box.**

After you have defined all settings you can start Apparo Fast Edit with “Start Fast Edit” button.

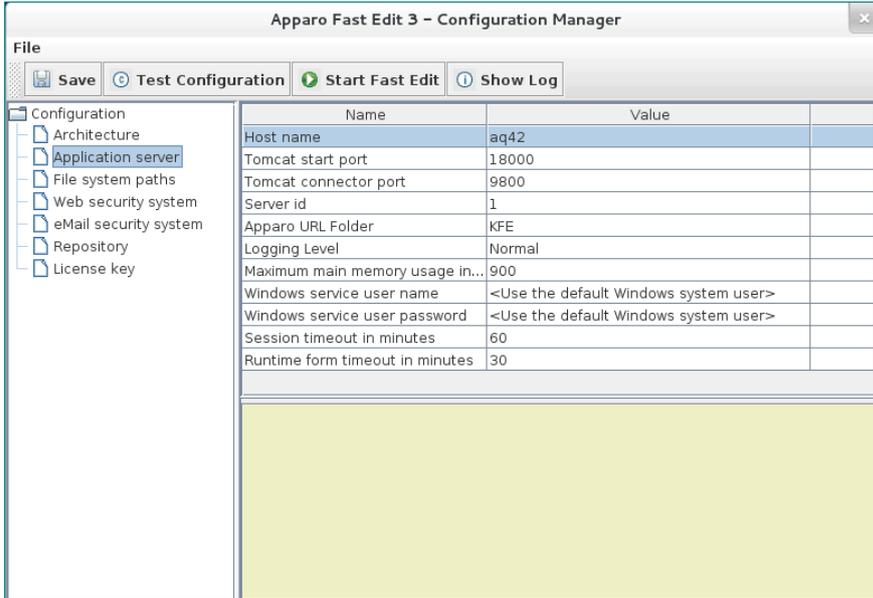


## 4.1 Architecture



## 4.2 Application server

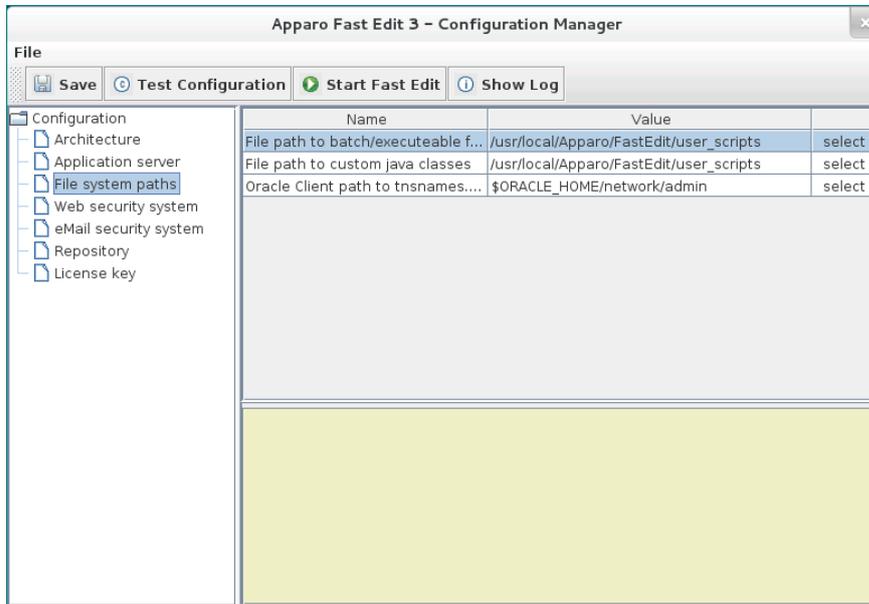
The settings for the Tomcat application server, like memory, ports etc.



### 4.3 File system paths

With the file systems paths you can define the place for storing clients, batch files that can be called from a Business Case or Java test classes for data quality checks.

Using an Oracle client it is necessary to define the place of the tnsnames.ora file.



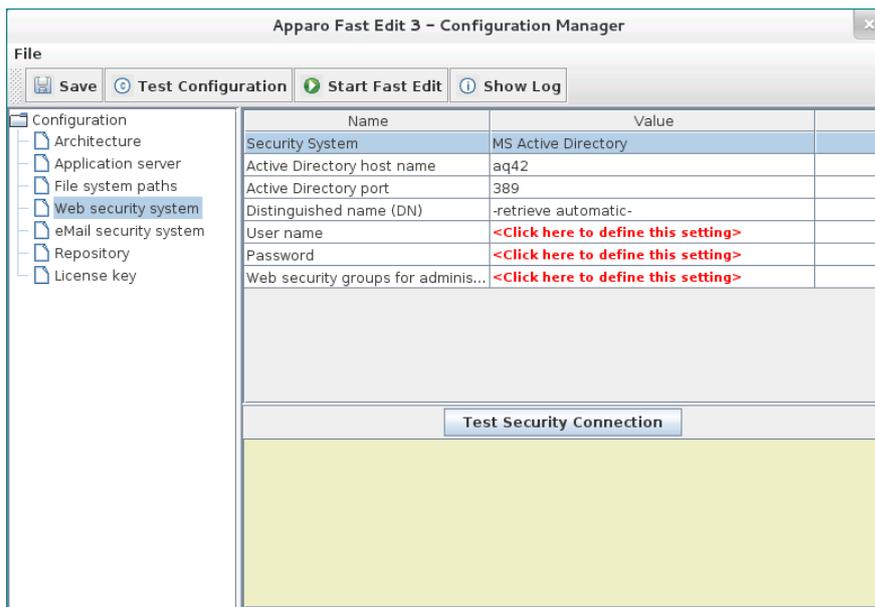
#### 4.4 Security

Normally Apparo Fast Edit is integrated in a Windows domain environment. That means the MS Active Directory server knows all user logins and their groups.

To be able to use a MS Active Directory server it is necessary to define the DN, the search user (normally Administrator) and its password.

In this example the Windows domain has the name “APP2” or “app2.com” Therefore the Distinguished name is “DC=app2, DC=com”.

**User name: Please use the domain name too, e.g. APP2/Administrator**



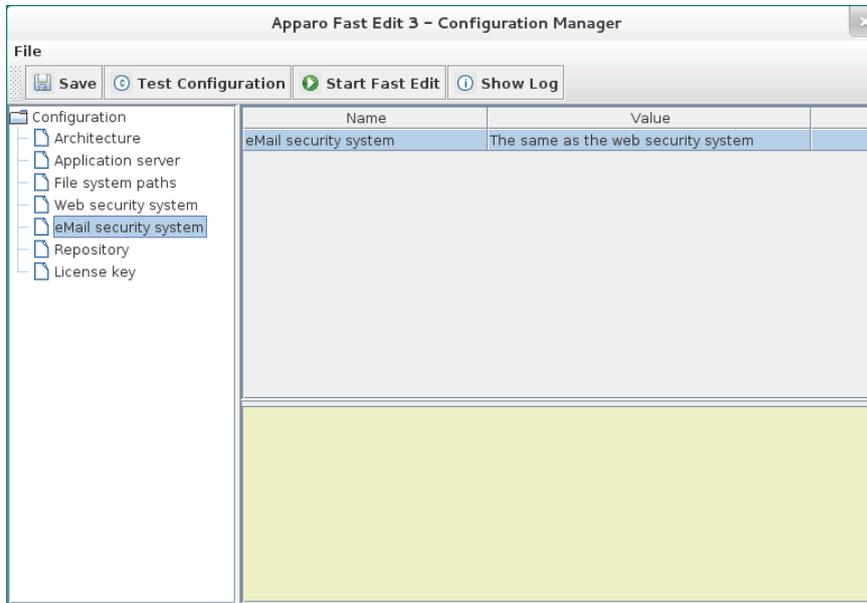
Setting “Web security groups for administrators”:

If a user is member of the security group that is here defined then this user has **full access** and can see and change the content of all clients in the Apparo Designer.

If this settings remains **empty** then everybody has **full access**.

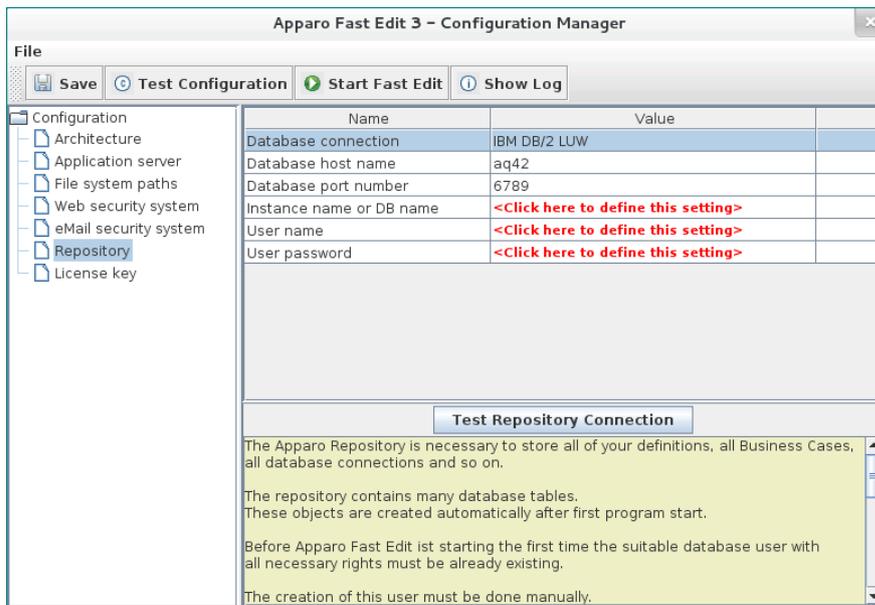
#### 4.5 eMail security system

An eMail Import Business Case can import data of Excel files that are delivered using an eMail. It is possible to restrict the usage for member of security groups only. Apparo Fast Edit is using in this case following security system:



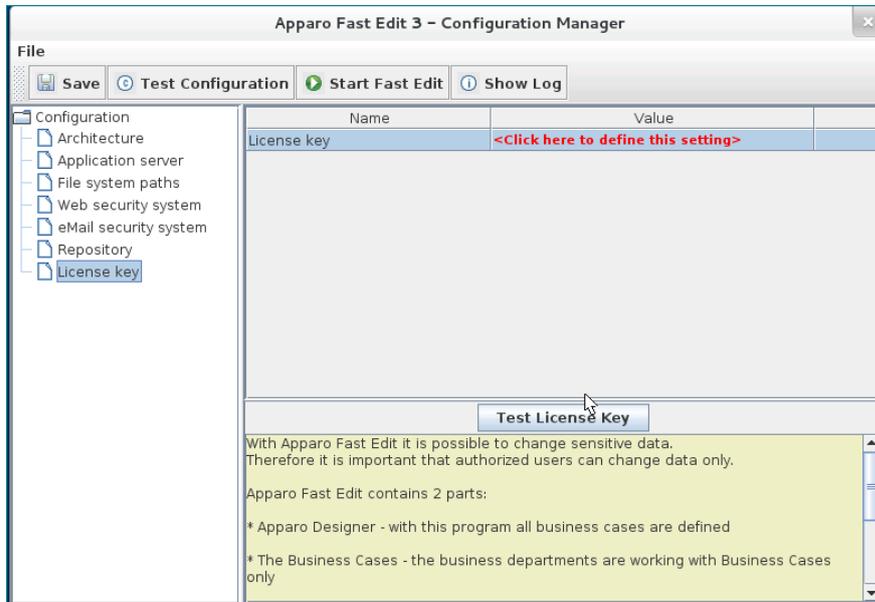
## 4.6 Repository

In the database repository all Business Case definitions are stored.



#### 4.7 License key

You must copy your license key for version 3 into this setting.



Hint: You can't use a license key that is for version 2.0 or 3.0.

Please contact the Apparo support to get a new license key for version 3.1:

support@apparo.solutions

To do list:

- |          |   |
|----------|---|
| <b>1</b> | <b>Define all settings</b>  |
| <b>2</b> | <b>Press the „Test Configuration“ button for testing all settings.</b>  |
| <b>3</b> | <b>Press the „<u>Start Fast Edit</u>“ button for starting the application server</b>  |
| <b>4</b> | <p><b>You can see the log file of the application server with pressing „<u>Show Log</u>“</b></p> <p><b>If the application server is running then you can see in the log:</b></p> <pre> +++++ + Apparo Fast Edit 3.1.x.y (Build nnn) was successfully started at XXXX +++++ </pre> |

**Test of an Apparo application servers without using an Apparo gateway:**

<http://<applicationserver:<startport>/apparo/pages/apptest.xhtml>

Example:<http://appserver1:18000/apparo/pages/apptest.xhtml>

With this URL you can test if the Apparo application server is running fine or has problems.

**The configuration of Apparo Fast Edit is stored in file configuration.xml in file directory [APPARO\_HOME]/FastEdit/cm .**

If you plan a parallel/cluster system then it's sometimes comfortable to copy this file into the target system.

If you open the Apparo Configuration Manager then you will see the same configuration settings like of your source system and it's possible to change it in a comfortable way.

## 5 Installation of the Apparo gateway

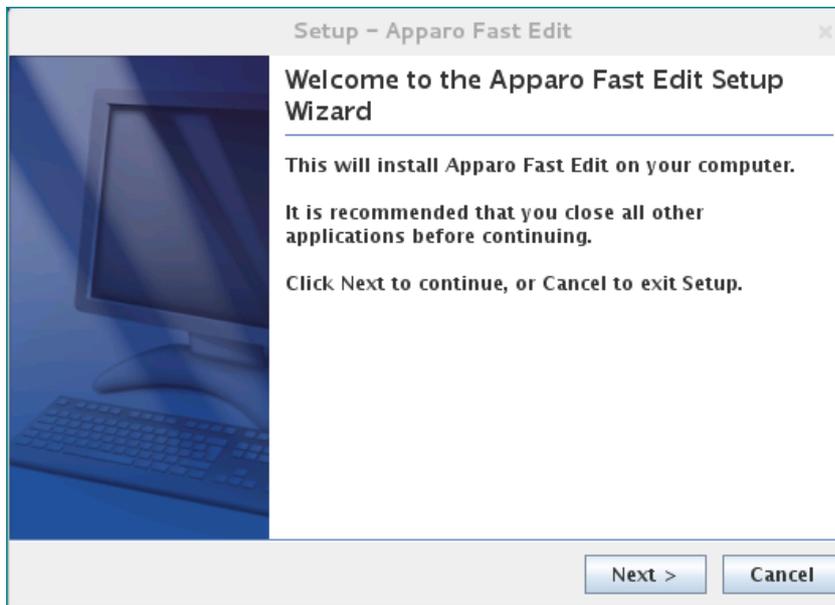
|          |   |
|----------|---|
| <b>1</b> | <p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>• Analysing environment</li> <li>• Creation of a <b>database user</b> for the Apparo repository</li> <li>• Defining the <b>security group</b> for all users that must be able to open the Apparo Designer</li> </ul> |
| <b>2</b> | <p><b>Installation of all Apparo application servers</b></p>  |
| <b>3</b> | <p><b>Configuration of all Apparo application servers</b><br/>Configuration using the Apparo Configuration Manager</p>  |
| <b>4</b> | <p><b>Installation of the Apparo gateway</b></p>  |
| <b>5</b> | <p><b>Configuration of all Apparo gateways</b><br/>Configuration the web server and the Apparo gateway using the Apparo Configuration Manager</p>   |
| <b>6</b> | <p><b>Installing clients</b><br/>Installing the clients in Apparo Designer</p>  |

Start the installation by running the file

**FastEdit3.1.x.x.yyy\_linux\_tomcat\_standalone.sh** (for 64 Bit-only environments)

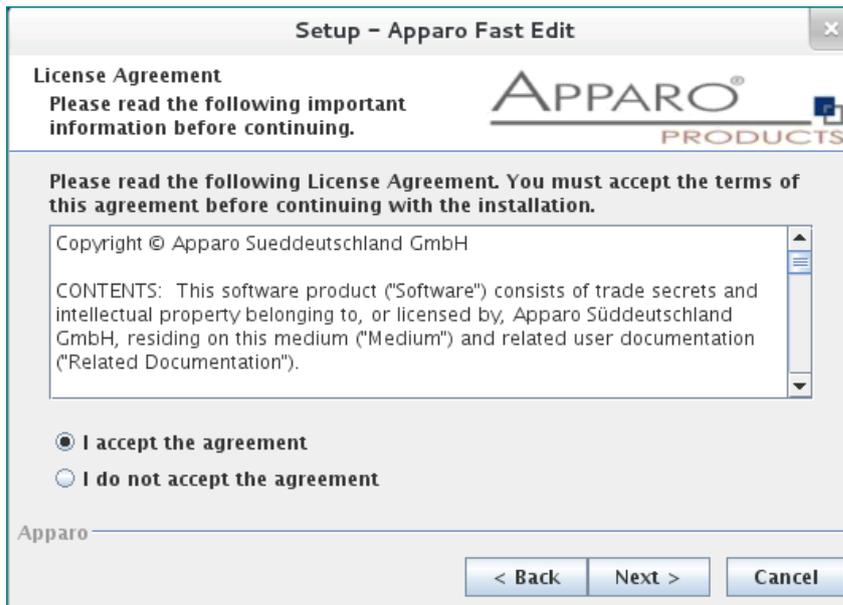
Or for IBM AIX:

**FastEdit3.1.x.x\_aix\_tomcat\_standalone.sh** (for 64 Bit-only environments)



Confirm the beginning of the installation by clicking „**Next**“.

## 5.1 License agreement



Read and confirm the license agreement by clicking „**Next**“.

## 5.2 Selecting the architecture

Setup – Apparo Fast Edit

Select your planned architecture

Do you have a small environment or a distributed environment with many servers?

Single Instance  
Complete Apparo environment is stored on one single host

Multi Instance  
An Apparo environment with more than one web server or application server

Apparo

< Back   Next >   Cancel

Select **“Multi Instance”** and choose „Next“.

Now it’s the time to choose the Apparo gateway.

Setup – Apparo Fast Edit

Select Apparo Fast Edit module for installation

Apparo Fast Edit contains 2 different modules:

The "Apparo gateway" must be installed parallel to a web server.

The "Apparo application server" can be installed on each host.

Apparo gateway parallel to an existing web server (IIS or Apache)

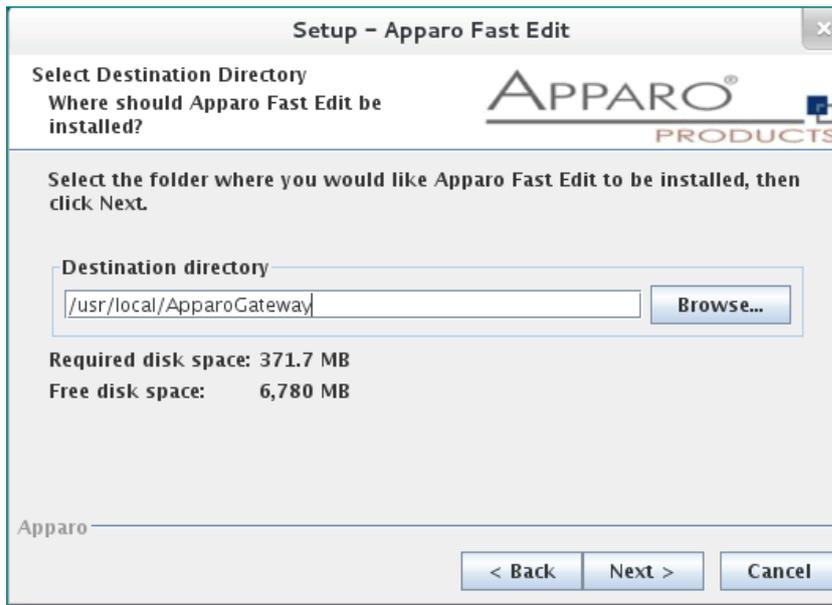
Apparo application server

Apparo

< Back   Next >   Cancel

Select **Apparo gateway** and choose „Next“.

### 5.3 Defining the target file directory



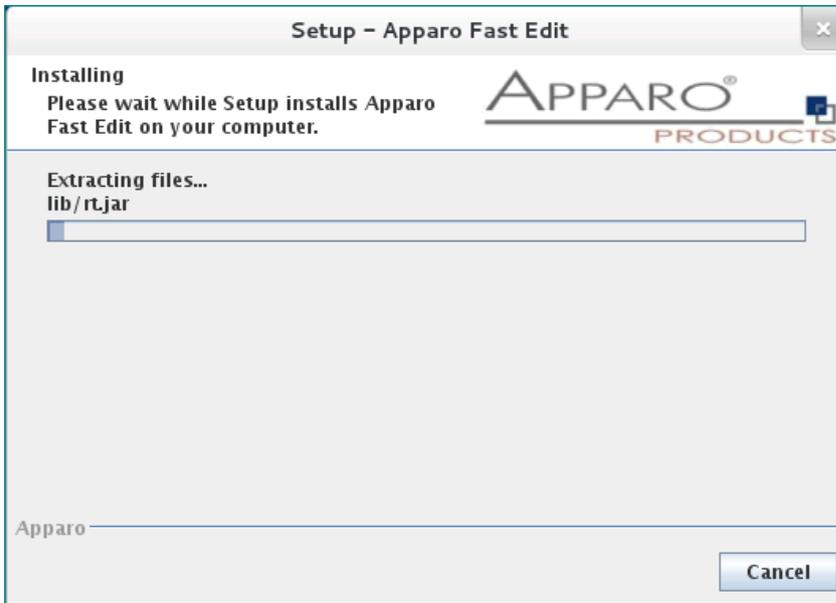
Default path:

**/usr/local/ApparoGateway**

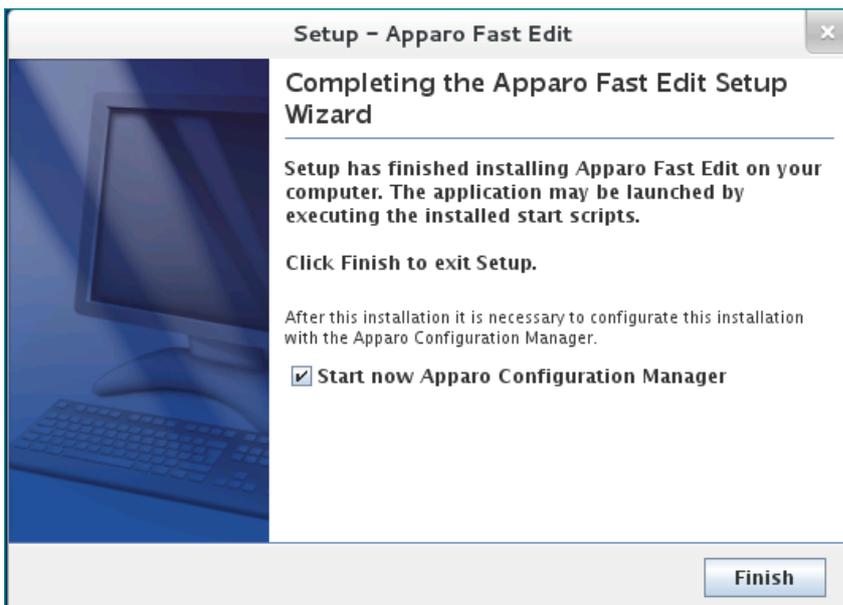
Please define the path and choose „**Next**“.

#### 5.4 Carrying out the installation

Finally the installation of Apparo Fast Edit with the selected architecture will start. After that this installation must be configured with the **Apparo Configuration Manager**.



#### 5.5 Installation finish



Now it's time to **configure** the installation with the **Apparo Configuration Manager**.

Click „**Finish**“ for completing the installation and to start the configuration.

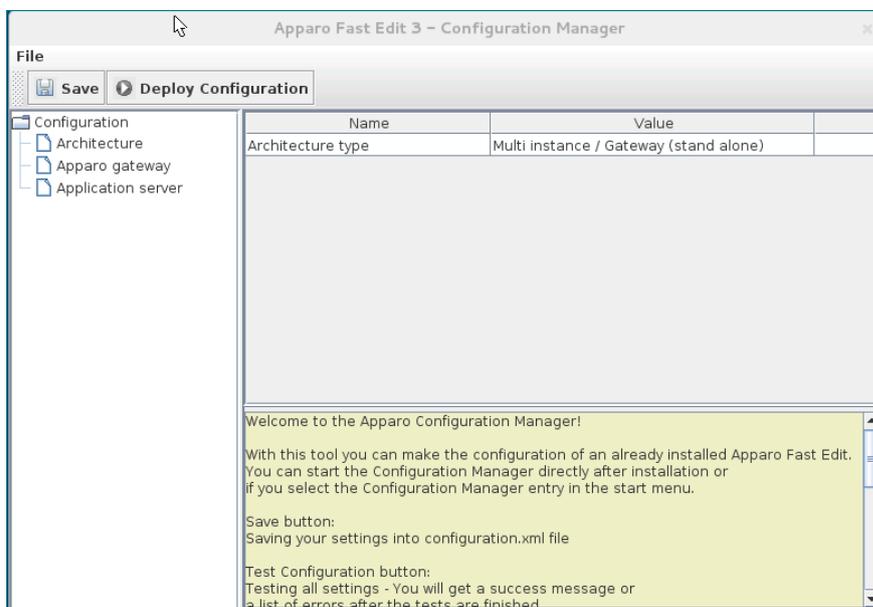
## 6 Configuration of the Apparo gateway

|          |   |
|----------|---|
| <b>1</b> | <p><b>Preparation</b></p> <ul style="list-style-type: none"> <li>• Analysing environment</li> <li>• Creation of a <b>database user</b> for the Apparo repository</li> <li>• Defining the <b>security group</b> for all users that must be able to open the Apparo Designer</li> </ul> |
| <b>2</b> | <p><b>Installation of all Apparo application servers</b></p>  |
| <b>3</b> | <p><b>Configuration of all Apparo application servers</b><br/>Configuration using the Apparo Configuration Manager</p>  |
| <b>4</b> | <p><b>Installation of the Apparo gateway</b></p>  |
| <b>5</b> | <p><b>Configuration of the Apparo gateway</b><br/>Configuration the web server and the Apparo gateway using the Apparo Configuration Manager</p>  |
| <b>6</b> | <p><b>Installing clients</b><br/>Installing the clients in Apparo Designer</p>  |

### Important

Before starting of the Apparo gateway configuration it is important that the configuration of all Apparo application servers with the Apparo Configuration Manager is successfully finished and the application servers are already running with pressing Button “Start Fast Edit”.

With the **Apparo Configuration Manager** you are able to configure the already installed Apparo gateway.



The settings are grouped into chapters (left side).

For each setting you can read a helpful description text in the yellow box.

**To do list:**

- |          |   |
|----------|---|
| <b>1</b> | <b>Define all settings</b>                                    |
| <b>2</b> | <b>Press the „Deploy Configuration“ button for deploying.</b> |
| <b>3</b> | <b>Press the „Save“ button for storing the settings.</b>      |

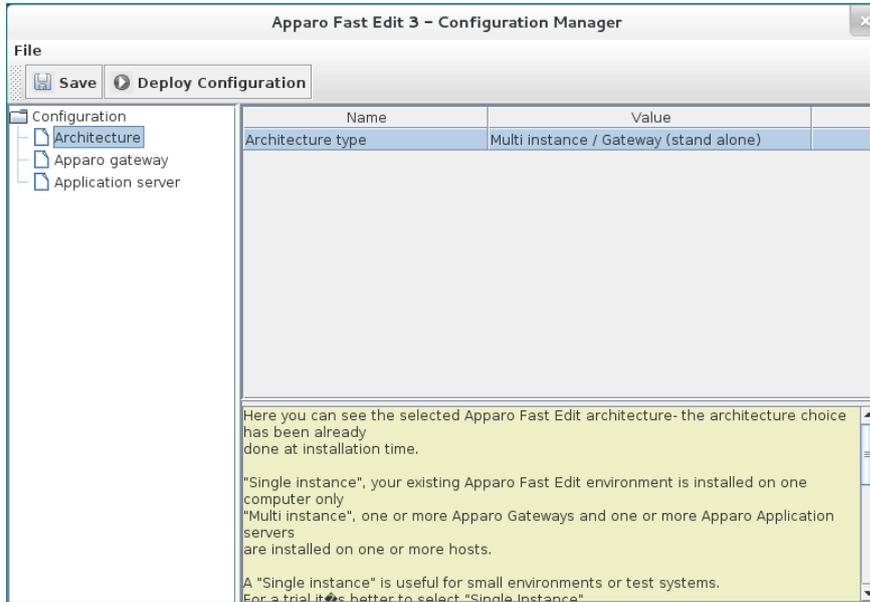
**The configuration of Apparo Fast Edit is stored in file configuration.xml  
in file directory [APPARO\_HOME]/FastEdit/cm**

If you plan a parallel/cluster system then it's sometimes comfortable to copy this file into the target system.

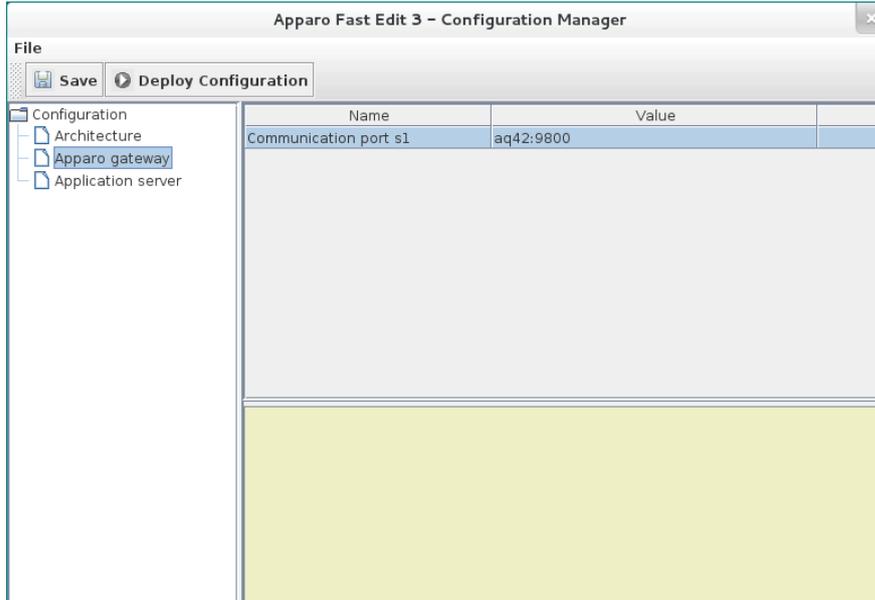
If you open the Apparo Configuration Manager then you will see the same configuration settings like of your source system and it's possible to change it in a comfortable way.

## 6.1 Architecture

In this section of the Configuration Manager you can find the selected Apparo Fast Edit architecture. This architecture was defined at installation time and is not changeable now.



## 6.2 List of application servers



You can add an Apparo application server entry with pressing the right mouse button.

The setting **Server ID** is important in a multi-application environment. Each application server has a unique ID starting with 1, then 2, 3, 4,...

This Server ID must be used in the **Apparo application settings too**.

### 6.3 Configuration of the Apache web server with ajp proxy

This chapter is describing the configuration of Apache web server 2.4 and higher.

**Hint: The configuration of Apparo Fast Edit using Apparo Configuration Manager must be already finished before you can continue.**

Following installation steps are necessary:

1. Configure the ajp proxy and the ajp proxy balancer modules, by modifying *httpd.conf* of your Apache web server **httpd.conf**

```
LoadModule proxy_module modules/mod_proxy.so
LoadModule proxy_ajp_module modules/mod_proxy_ajp.so
LoadModule proxy_balancer_module modules/mod_proxy_balancer.so
```

2. Configure the load balancer members under <IfModule mod\_proxy.c>:  
Open text file "**afe.conf**" that is stored in directory cgi-bin in a text editor.

Replace in httpd.conf the line "<IfModule mod\_proxy.c>" with the content of the text file or use parts of the text file afe.conf. Example – a configuration with 1 node:

```
<IfModule mod_proxy.c>
  ProxyPass /apparo balancer://ApparoFastEdit/apparo
  ProxyPassReverse /apparo balancer://ApparoFastEdit/apparo
  ProxyIOBufferSize 32768
  <Proxy balancer://ApparoFastEdit>
    BalancerMember ajp://aq34:9800 route=s1 loadfactor=1
    ProxySet timeout=300
    ProxySet lbmethod=bytraffic
    ProxySet nofailover=On
    ProxySet stickysession=JSESSIONID|jsessionid
  </Proxy>
  <Location /balancer-manager>
    SetHandler balancer-manager
  </Location>
</IfModule>
```

Save the file `httpd.conf` and restart the web server.

**Hint if using RedHat Linux:**

If you get an Apache error like:

[error] (13)Permission denied: proxy: AJP: attempt to connect to <servername:9800> failed

Please enter following command:

```
/usr/sbin/setsebool -P httpd_can_network_connect 1
```

Server Time out:

Please check that your Apache web server configuration has the setting

**TimeOut 1800**

Apparo Fast Edit need much time for importing/exporting/upgrading and Excel import.

Now the installation of the Apparo gateway for Apache web server is finished.

#### 6.4 Open the portal

The URL for opening the Apparo Portal:

<http://servername/apparo>

Hint: If you have changed the folder name in the Apparo Configuration Manager then you must use this name instead of “apparo”.

If you have changed the Apparo gateway protocol to https then you must use https.

Opening the Apparo Designer:

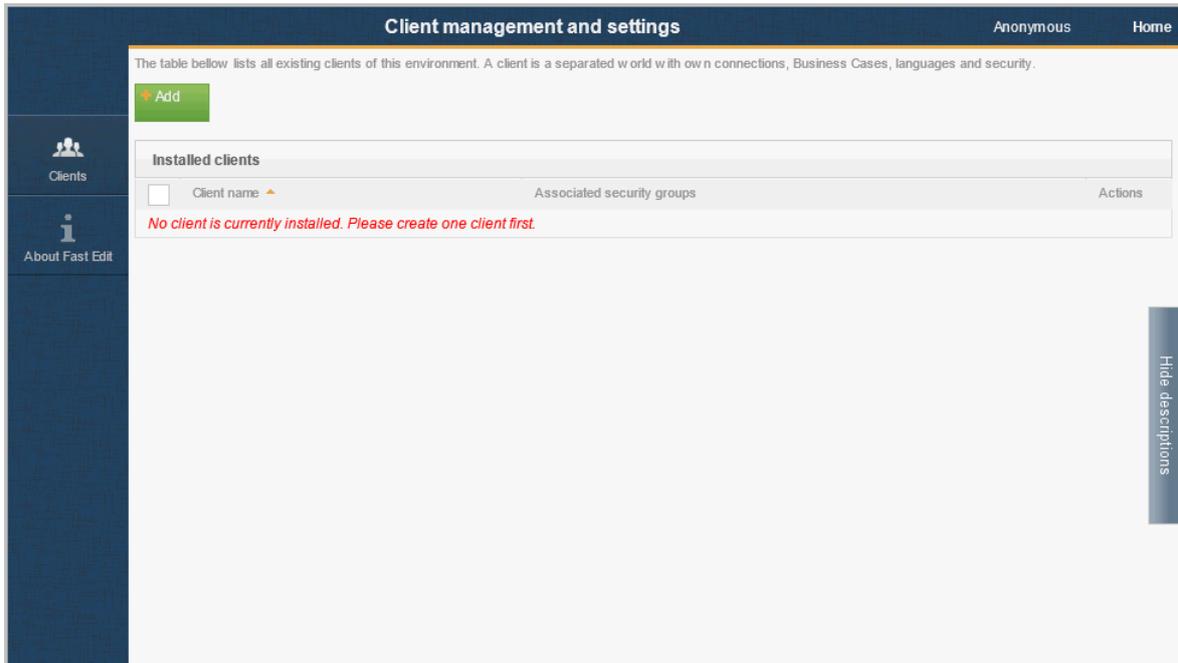
<http://servername/apparo/designer>

**Example:**

<https://aqserver11/apparo>

Now try to start the Apparo Portal – just **use the link in your web browser.**

The following window should open if the repository is empty:



Please read now the document "Configuration guide".

## The installation & configuration on serverside is now successfully completed.

Please also read the following chapter 'Browser requirements'.

We recommend to read the document "**Training Guide**" for the fundamental usage for the first steps.

You can find all documentations and movies in

[APPARO\_HOME]/FastEdit/doc

Movies about Apparo Fast Edit:

<http://movies.apparo.solutions>

## 7 Configuration Manager using command line

It is possible to automate the configuration process of the Configuration Manager.

The complete configuration is stored in the file **configuration.xml**

You can find this file in the [APPARO\_HOME]/FastEdit/cm file directory.

Using this command line the configuration can be restored:

```
[APPARO_HOME]/FastEdit/cm/cmc.sh parameter1 parameter2 ...
```

| Parameter name     | Functionality   |
|--------------------|---|
| -?                 | Displays this help text   |
| -deploy true/false | Configuration Manager will deploy the setting file, default: true |
| -start true/false  | Start Apparo Fast Edit (if no gateway), default: true             |

## 8 Import/Export definitions using command line

You can export and import clients (including languages, folder, Business Cases, connections, DB-messages), Business Cases, folder and connections using scripts.

### 8.1 Importing definitions

The import program is stored in the file directory "import": [APPARO\_HOME]/FastEdit/import

Use script **afe-import.sh** (If you start the script without arguments then you see the possible arguments)

|  |  |
|--|--|
| <b>-afeUrl &lt;URL&gt;</b>                     | The Apparo Fast Edit URL address that will export the data.<br>Example: http://localhost:18000/apparo.<br>If you don't use this argument then the export is using the application server of this installation and its installation port. |
| <b>-clientId &lt;CLIENT_ID&gt;</b>             | ID of a client that Business Cases, language definitions, database messages or connection definitions will be imported into.   |
| <b>-f &lt;FILE&gt;</b>                         | The file that contains the client, Business Case, language definition, database messages or connection definitions.  |
| <b>-h</b>                                      | Displays this help text  |
| <b>-importSecurity &lt;true false&gt;</b>      | Business cases and folders may contain a list of user groups defining who can access them. If this option is set to false, such security information will not be imported.   |
| <b>-overwriteBc &lt;true false&gt;</b>         | If true then Business Cases from the import file will overwrite already existing Business Cases if their Business Case ID are the same. If false, Business Cases with such conflicting identifiers will be skipped.                      |
| <b>-overwriteClient &lt;true false&gt;</b>     | If true then clients from the import file will overwrite already existing clients with the same identifiers including client content like Business Cases. If false then clients with such conflicting identifiers will be skipped.       |
| <b>-overwriteConnection &lt;true false&gt;</b> | If true then database and email connections from the import file will overwrite already existing connections with the same names. If false then connections with such conflicting names will be skipped.                                 |
| <b>-p &lt;PASSWORD&gt;</b>                     | The password used to authenticate. This setting is necessary in a secured environment.   |
| <b>-u &lt;USERNAME&gt;</b>                     | The user used to authenticate. This setting is necessary in a secured environment.   |

All import activities are logged server side in file directory logs, file afeimport.log

Sample: **afe-import.sh -f /etc/definition.xml -u aferep -p aferep**

## 8.2 Exporting definitions

The export program is stored in the file directory “export”: [APPARO\_HOME]/FastEdit/export

Use script **afe-export.bat**

If you start the script without arguments then you can see the possible arguments:

|                                       |  |
|---------------------------------------|--|
| <b>-afeUrl &lt;URL&gt;</b>            | The Apparo Fast Edit URL address that will export the data. Example: http://localhost:18000/apparo. If you don't use this argument then the export is using the application server of this installation and its installation port. |
| <b>-bcid &lt;BUSINESS_CASE_ID&gt;</b> | ID of a Business Case you want to export.  |
| <b>-clientId &lt;CLIENT_ID&gt;</b>    | ID of a client you either want to export or an ID of a client the target object (Business Case, folder or connection) belongs to.  |
| <b>-dbc &lt;CONN_NAME&gt;</b>         | Name of a database connection you want to export.  |
| <b>-emailc &lt;CONN_NAME&gt;</b>      | Name of an email connection you want to export.  |
| <b>-f &lt;FILEPATH&gt;</b>            | Filename & path where to write the exported XML.   |
| <b>-folderPath &lt;PATH&gt;</b>       | Path of a folder you want to export. It should start with a slash character '/' which should also be used as a path separator.   |
| <b>-h</b>                             | Displays this help text  |
| <b>-p &lt;PASSWORD&gt;</b>            | The password used to authenticate. This setting is necessary in a secured environment.   |
| <b>-u &lt;USERNAME&gt;</b>            | The user used to authenticate. This setting is necessary in a secured environment.   |

All export activities are logged server side in file directory logs, file afeexport.log

Sample:

```
afe-export.sh -f /etc/definition.xml -clientId DemoClient
```

## 9 Start-up of Apparo Fast Edit without Configuration Manager

Apparo Fast Edit can be started using the script

**startService.sh**

it is stored in

**[APPARO\_HOME]/FastEdit/bin**

**Following arguments are necessary:**

1. Start port of Tomcat, default: 18000 (see settings in Configuration Manager)
2. Main memory max, default: 2048 (in MB)

Example:

**./startService.sh 18000 2048**

## 10 Starting of Apparo Configuration Manager

The Apparo Configuration Manager can be started using:

```
./cm.sh
```

it is stored in

```
[APPARO_HOME]/FastEdit/cm
```

Example:

```
cd /opt/Apparo/FastEdit/cm
```

```
./cm.sh
```

**Important for IBM AIX:**

**Please be sure that variables JAVA\_HOME and PATH are set correctly and the Java 7 Release 1 is in use.**

## 11 The Apparo system log

All internal system message of Apparo Fast Edit are stored in

**afe.log**

It is stored in:

**[APPARO\_HOME]/FastEdit/logs**

Example:

**cd /opt/Apparo/FastEdit/logs**

**gedit afe.log**

The Tomcat system log is stored in:

**[APPARO\_HOME]/FastEdit/tomcat/logs**

Example:

**cd /opt/Apparo/FastEdit/tomcat/logs**

**gedit catalina.log**

## 12 Online documentation

The complete documentation is stored in

**[APPARO\_HOME]/FastEdit/doc**

## 13 Browser requirements

### 13.1 Supported browsers and versions

Microsoft Internet Explorer 8 (not recommended, execution is slow)

Microsoft Internet Explorer 9

Microsoft Internet Explorer 10

Microsoft Internet Explorer 11

Hint: Compatibility mode for Internet Explorer 8 must be disabled.

Mozilla Firefox (current version)

Google Chrome (current version)

Apple Safari (current version)

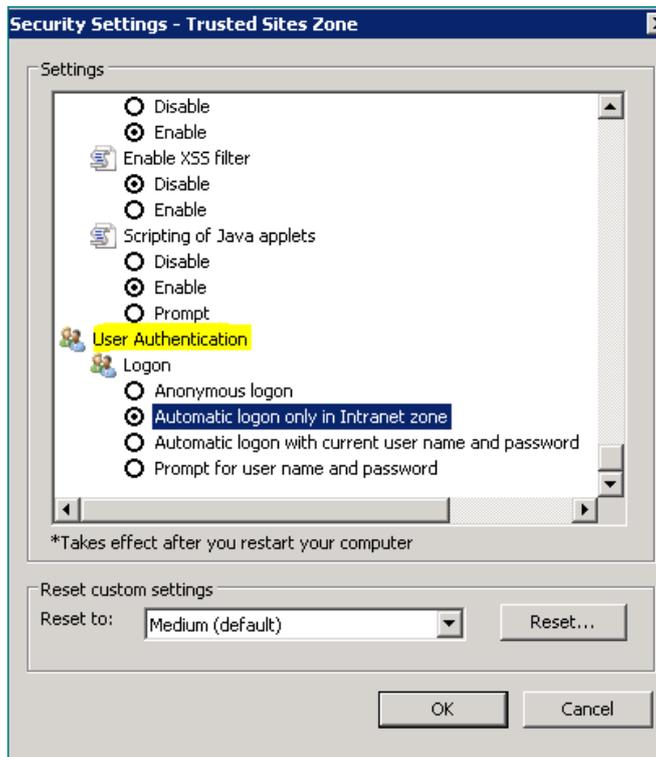
### 13.2 Supported operating systems for client browsers

Microsoft Windows

### 13.3 Additional settings for Microsoft Internet Explorer only

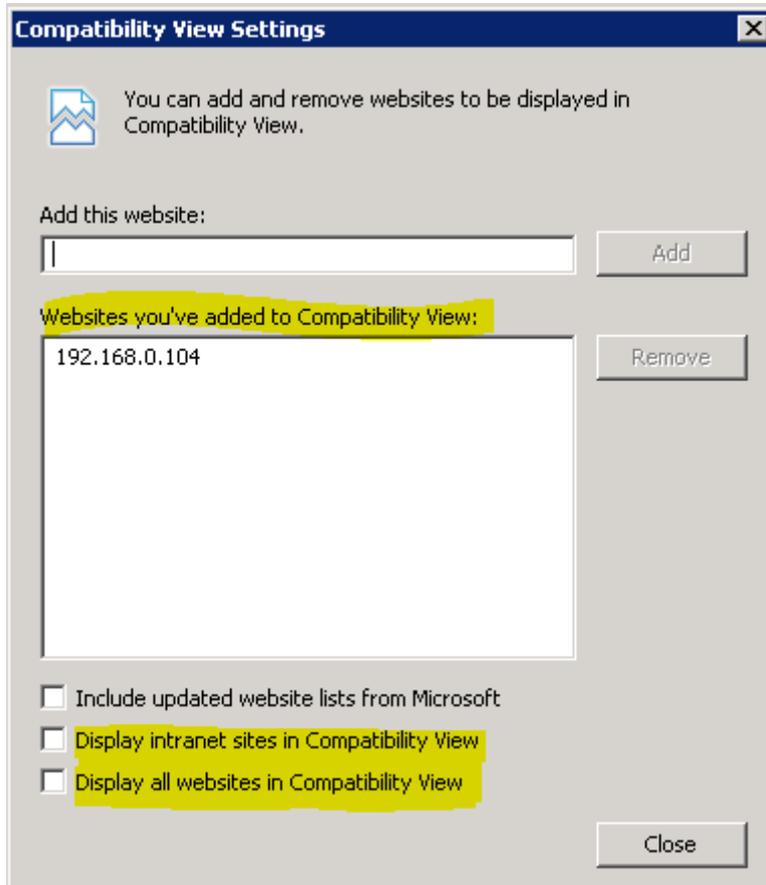
- Domain name of Apparo Fast Edit web server must be in trusted sites
- “about:blank” must be in trusted sites

Settings for Single Sign On (SSO) for standalone versions of Apparo Fast Edit:



**Hint: Apparo Fast Edit is not supporting Internet Explorer 7.**

Therefore the settings “**Display intranet in Compatibility View**” and “**Display all websites in Compatibility View**” must be **disabled**.



Solution: Placing these domains into the “Websites you’ve added to Compatibility View” because in this case Apparo Fast Edit can disable the Compatibility View automatically.

#### 13.4 Additional settings for all browsers

- Popup blocker must be **disabled**
- File download (Excel files) must be allowed

## 14 Support

If you need support please write an eMail to:

[support@apparo.solutions](mailto:support@apparo.solutions)