

Installation Guide

Apparo Fast Edit

Single Instance

Qlik Sense

Version 3.1.1



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1 Prior to Installation

Installing Apparo Fast Edit can be done in 1/2 hour if you prepare your environment.

Please be aware of the following points before starting installation:

Hardware requirements

- File system about 1 GB file storage
- Main Memory about 1 GB main memory

Supported operating systems

- Windows Server 2016
- Windows Server 2012 / 2012 R2
- Windows Server 2008 / 2008 R2

Supported Qlik Sense versions and products

- Qlik Sense Enterprise 3.0 and higher

Supported security systems

- All security systems that are currently in use for Qlik Sense

Supported virtual environments

- VMware ESX, ESXi
- Amazon AWS

Apparo Fast Edit must be installed using a **local Windows administrator** account.

Qlik Sense Enterprise must be already installed and running.

1.1 Installation strategy

Following steps are necessary in this order:

<p>1</p>	<p>Database preparation for Apparo Repository</p>
<p>2</p>	<p>Installation and configuration of all Apparo Fast Edit</p>
<p>3</p>	<p>Adding Apparo Extensions into Qlik Sense</p>

Apparo Fast Edit can be installed

- parallel to the Qlik Sense installation on the same host...
...Or...
- installed completely on a different server. In this case it is necessary to copy manually 4 files into the Qlik sense proxy file directory.



<p>1</p>	<p>Preparation</p> <ul style="list-style-type: none"> • Analysing environment • Creation of a database user for the Apparo repository
<p>2</p>	<p>Installation of Apparo Fast Edit</p>
<p>3</p>	<p>Configuration of Apparo Fast Edit! Configuration using the Apparo Configuration Manager</p>
<p>4</p>	<p>Adding Apparo Extensions into Qlik Sense</p>
<p>5</p>	<p>Installing clients</p>

2 Preparation

1	<p>Preparation</p> <ul style="list-style-type: none"> • Analysing environment • Creation of a database user for the Apparo repository
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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 DB2 9-11.1
- MS SQL Server 2005-2016
- Internal database (for presentation and development only)

This database user must be defined before starting the Apparo Fast Edit setup.

You can find a detail description in the document “Installation – creating database user”.

Essential grants:

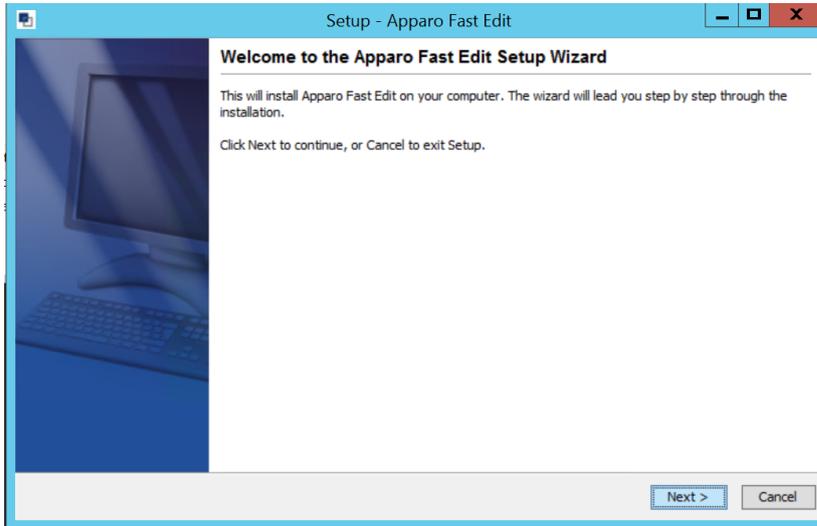
- The database user must be able to create database tables
- A Login with this user must be possible

3 Installation of all Apparo Application Servers

1	<p>Preparation</p> <ul style="list-style-type: none"> • Analysing environment • Creation of a database user for the Apparo repository
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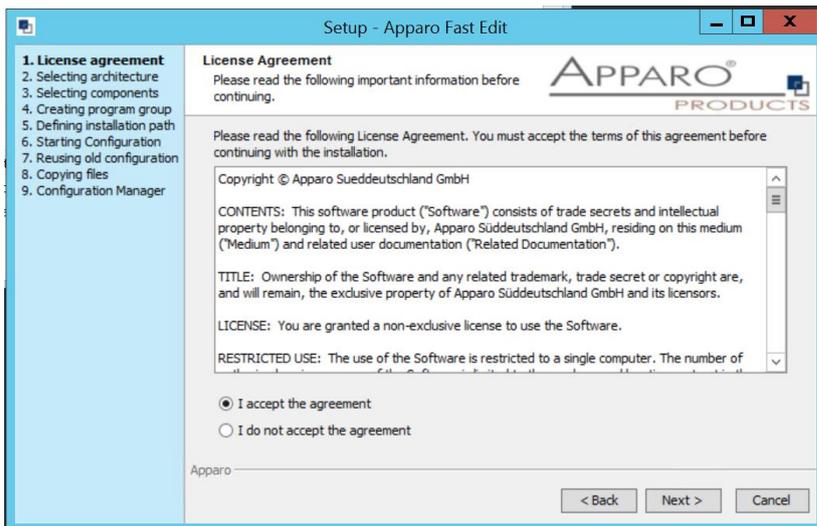
Start the Installation by execute the file

FastEdit3.1.x.x_yyy_windows_tomcat_qliksense.exe



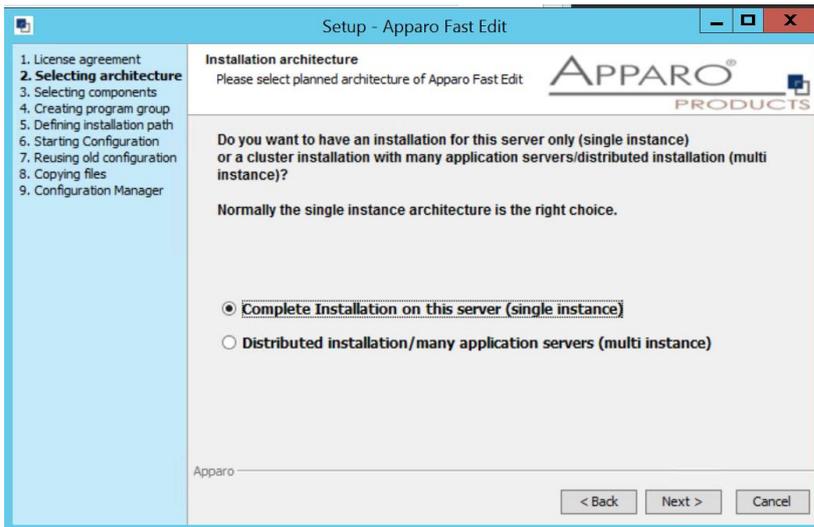
Confirm the beginning of the installation by clicking „Next“.

3.1 License agreement



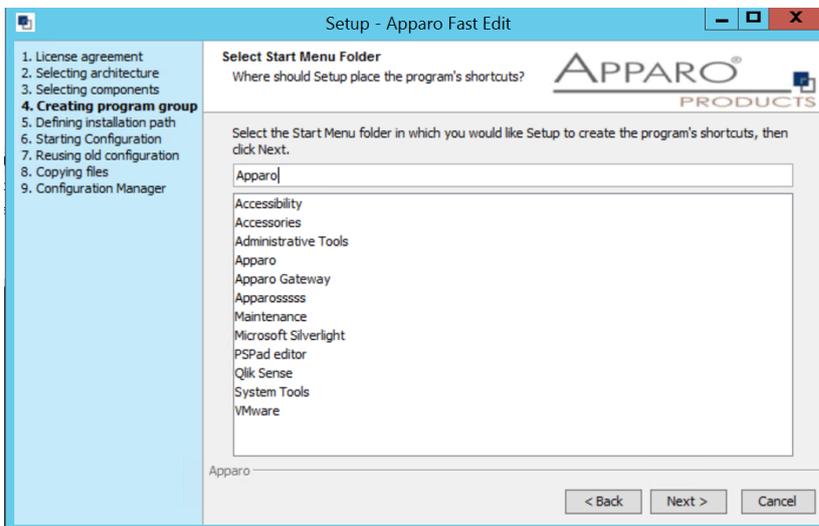
Read and confirm the license agreement by clicking „Next“.

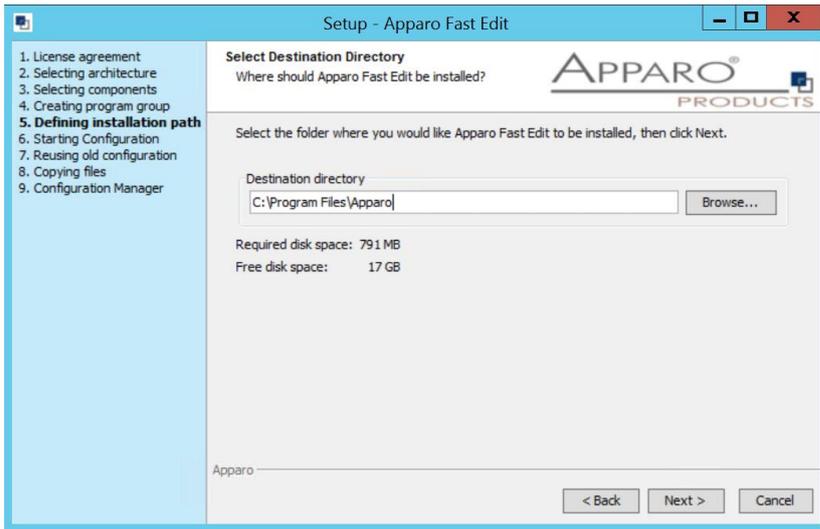
3.2 Selecting the architecture



Select **“Complete Installation on this server”** and click **„Next>“**.

3.3 Defining the start menu entry and the target file directory

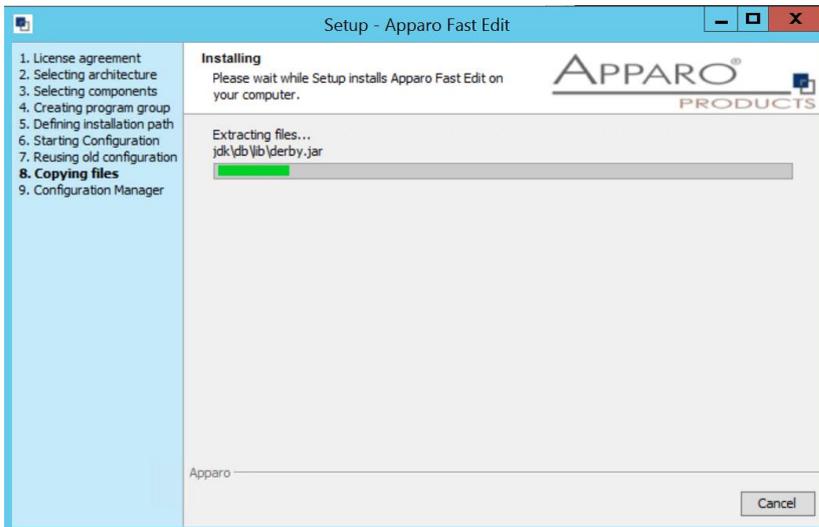




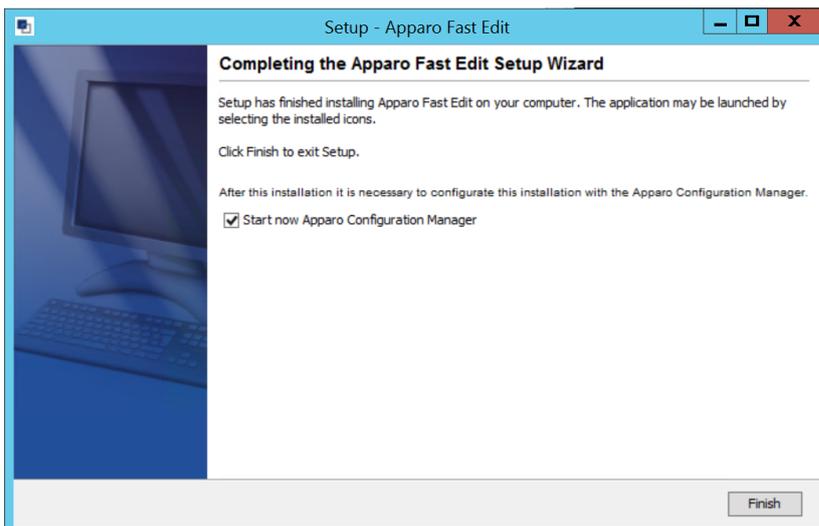
Please define the installation path and choose „Next >“.

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



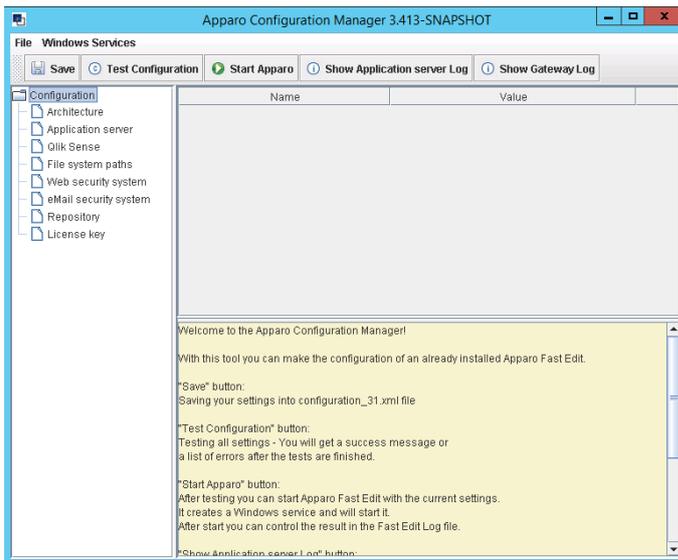
Now it's time to **configure** the installation with the **Apparo Configuration Manager**.

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

4 Configuration of Apparo Fast Edit

1	Preparation <ul style="list-style-type: none"> • Analysing environment • Creation of a database user for the Apparo repository
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With the **Apparo Configuration Manager** you are able to configure the already installed Apparo Fast Edit.



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:

- | | |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Define all settings |
| 2 | Press the „Test Configuration“ button for testing all settings. |
| 3 | Press the „<u>Start Fast Edit</u>“ button for starting the application server |
| 4 | <p>You can see the log file of the application server with pressing „<u>Show Log</u>“</p> <p>If the application server is running then you can see in the log:</p> <pre> 2016-11-07 02:37:41,831 INFO com +++++ + Apparo Fast Edit 3.1.1.x (Build nnn) was successfully started at 07.03.2017 02:37:41 + +++++ </pre> |

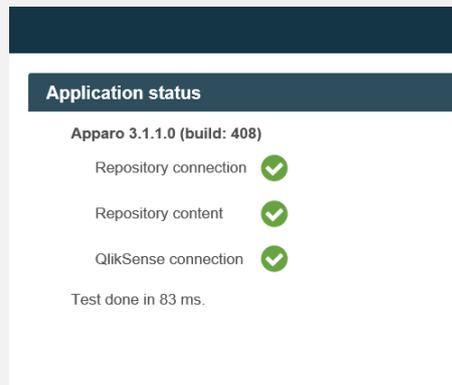
Test of an Apparo application server:

<http://<applicationserver:<start port>/apparo/pages/apptest.xhtml>

Example: <http://server1:18000/apparo/pages/apptest.xhtml>

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

Example:



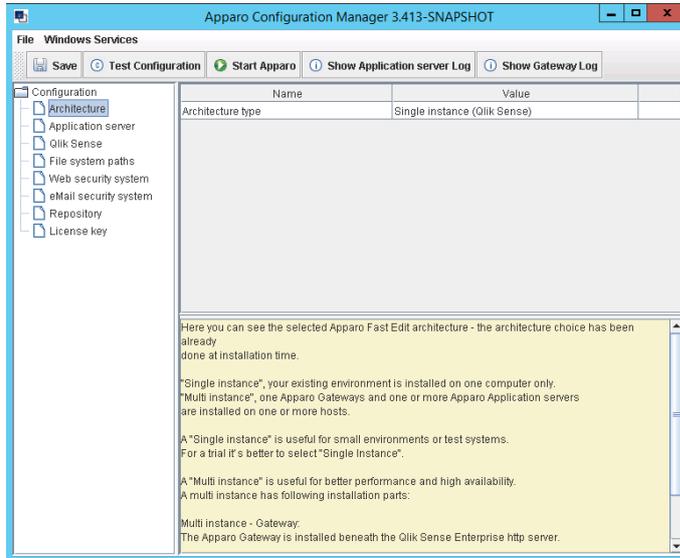
The configuration of Apparo Fast Edit is stored in file configuration.xml in file directory [APPARO_HOME]\FastEdit\cm .

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 comfortable.

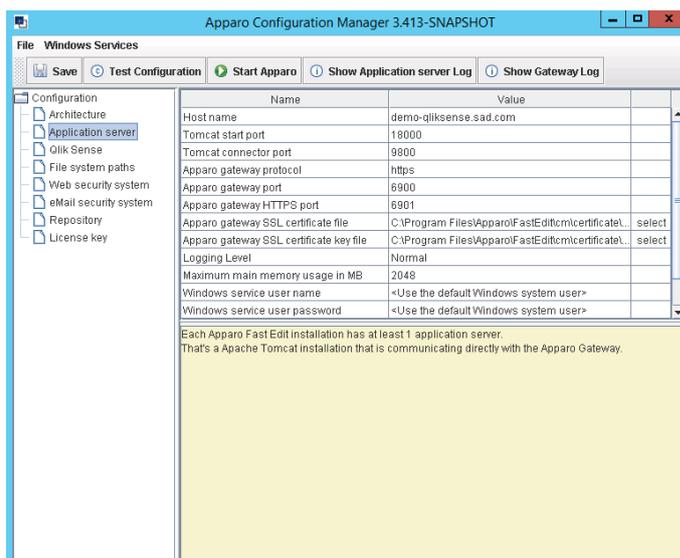
4.1 Architecture

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



4.2 Application server

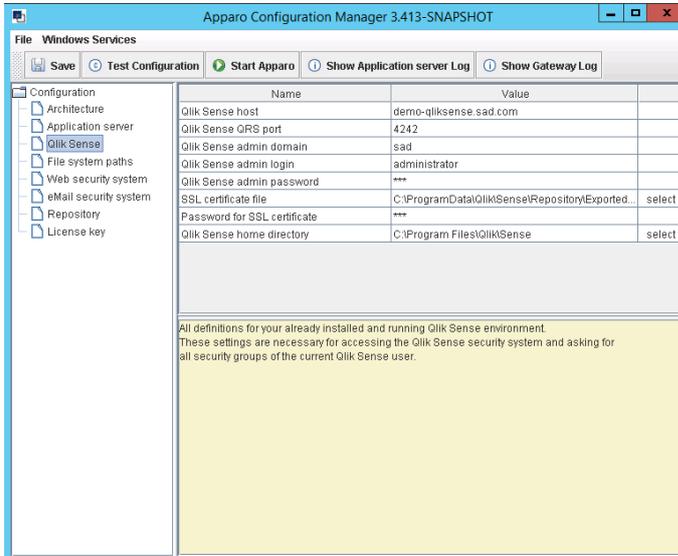
Settings for the Apparo Application Server:



4.3 Qlik Sense

Settings for the already installed Qlik Sense environment:

Qlik Sense host name: The domain name that is used for calling the Qlik Sense system.

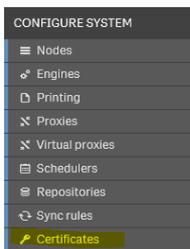


Apparo Fast Edit must be able to read user data from the Qlik Sense proxy system.

Because the Qlik Sense system is secured it is necessary to use a security certificate from the installed Qlik Sense system.

How to get this certificate:

Please open the Qlik Sense Management Console and select "Certificates" from the left panel:



Add the current machine name, e.g. MYMACHINE.mydomain.com or the IP address:

This should be the same name as the entry for the host in the Configuration Manager.



After that enter the necessary password information **and include secret key**:

Certificate password	<input type="password"/>
Retype password	<input type="password"/>
Include secret key	<input checked="" type="checkbox"/>
Export file format for certificates	Windows format

Certificates will be exported to this disk location on the server: C:\ProgramData\Qlik\Sense\Repository\Exported Certificates

Certificates will be exported to this disk location on the server:

[Installation Drive]:\ProgramData\Qlik\Sense\Repository\Exported Certificates

Now you can select the **client.pfx** file for setting „SSL certificate file“.

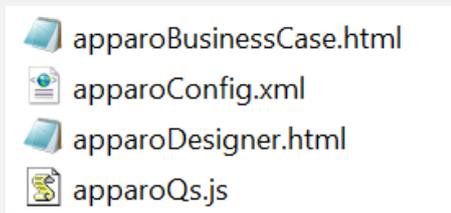
Hint: User for login into the Qlik Sense repository service:

This user must have the Qlik Sense role “RootAdmin”.
If not then the login will be not possible.

It is possible to install complete Apparo Fast Edit on a separate machine. That means no installation on the Qlik Sense Enterprise server is necessary.

In this case:

- The setting “Qlik Sense home directory” must remain empty
- Copy following files from file directory [Apparo Gateway]/FastEdit/etc



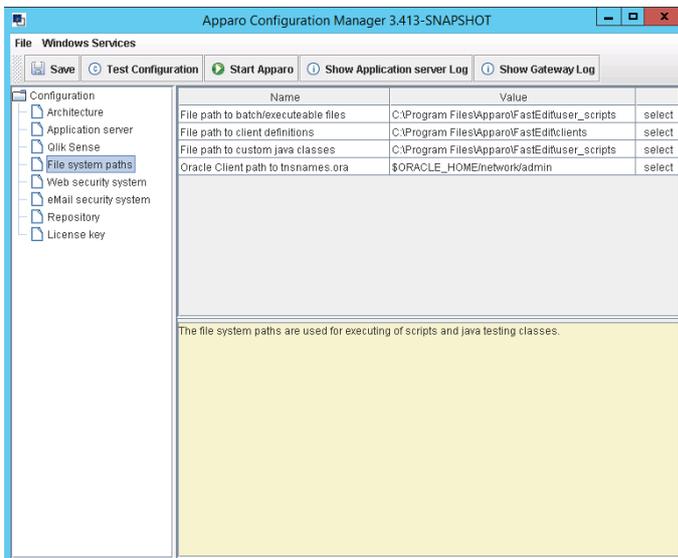
... into file directory [Qlik Sense]\Client

after you have finished the configuration of Apparo Fast Edit with pressing “Start Fast Edit” button.

- If you use MS Internet Explorer: Add the server name of the Apparo server into trusted sites

4.4 File system paths

File directories for the server side scripts and user defined Java classes:



It is important that the Windows system user or the user that is running the Windows Service of Apparo Fast Edit has write and read access to these file directories.

Hint: If you use many application servers then all application server must use the same file directory.

Therefore it's possible to use Windows shares, e.g. [\\server1\scripts](#)

If using shares it's necessary that the Windows service of Apparo Fast Edit must not use a local system account.

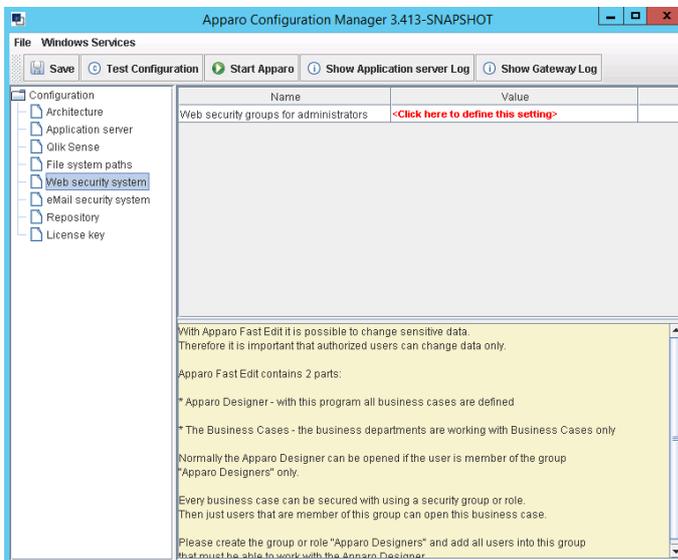
Using a Windows Administrator account is for example a solution.

4.5 Web security system

All settings for the used security system:

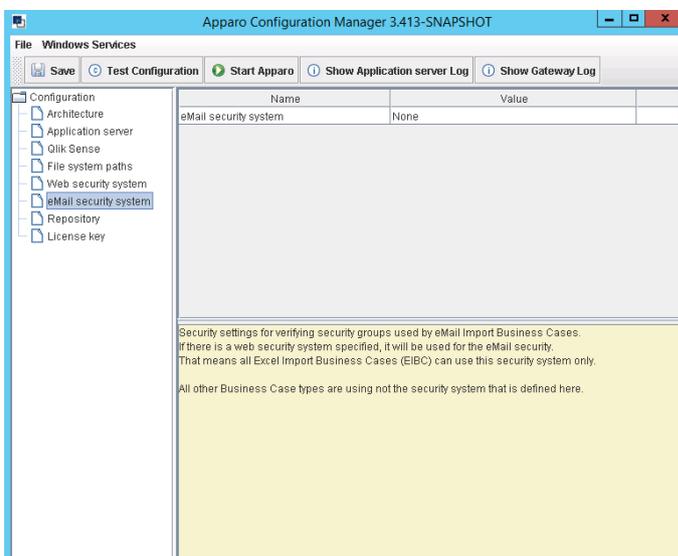
In this chapter you can define the **security group** of all users that is necessary to be able to open the Apparo Designer **with full access**.

If there is no security group defined then all users can open the Apparo Designer with full access.



4.6 eMail security system

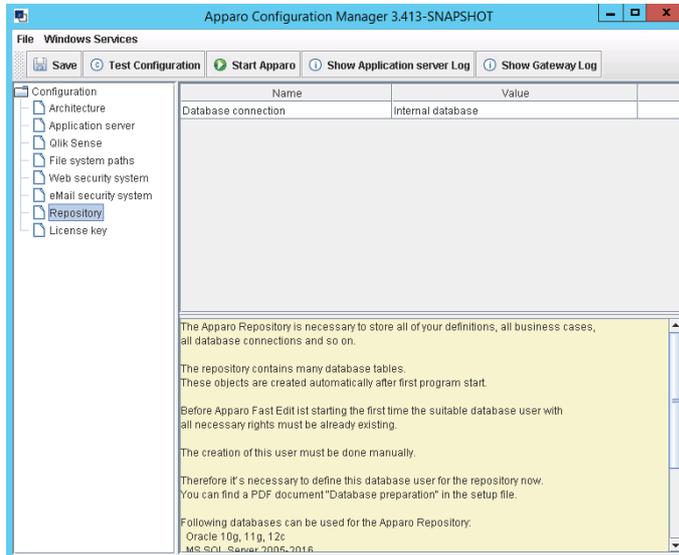
The Excel Import Business Case is running outside of the Qlik Sense security and need therefore an own security system.



4.7 Repository

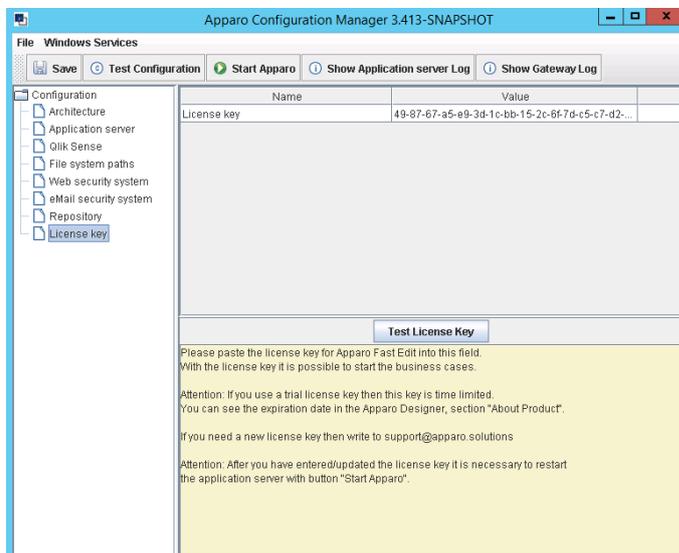
The database connection to the Apparo repository.
The repository are many database tables in that all definitions are stored.

For testing you can use the “internal database” too.
This database is slower than a normal database like Oracle, MS SQL Server or IBM DB2 but you don’t need a installation.



4.8 License key

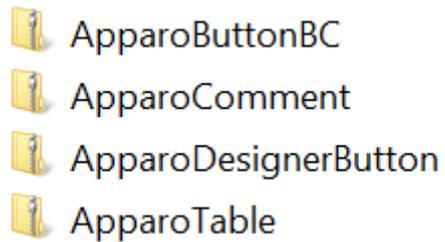
In this section you can add & change the license key. This key is necessary to run Apparo Fast Edit.



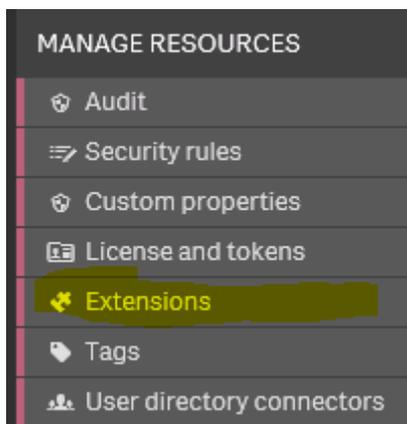
4.9 Adding Qlik Sense Extensions

Apparo Fast Edit is using Qlik Sense Extensions.
Therefore they must be first installed into your existing Qlik Sense system.

Open your Windows Explorer in **[APPARO_HOME]\FastEdit\etc**
You can see:



Please open now the Qlik Sense Management Console and select “Extensions”:



Please import now these 4 extensions for Apparo.

After that please open Qlik Sense Hub and create a new App.

Now you can see the 4 new Apparo widgets:

 Apparo Button BC

 Apparo Comment

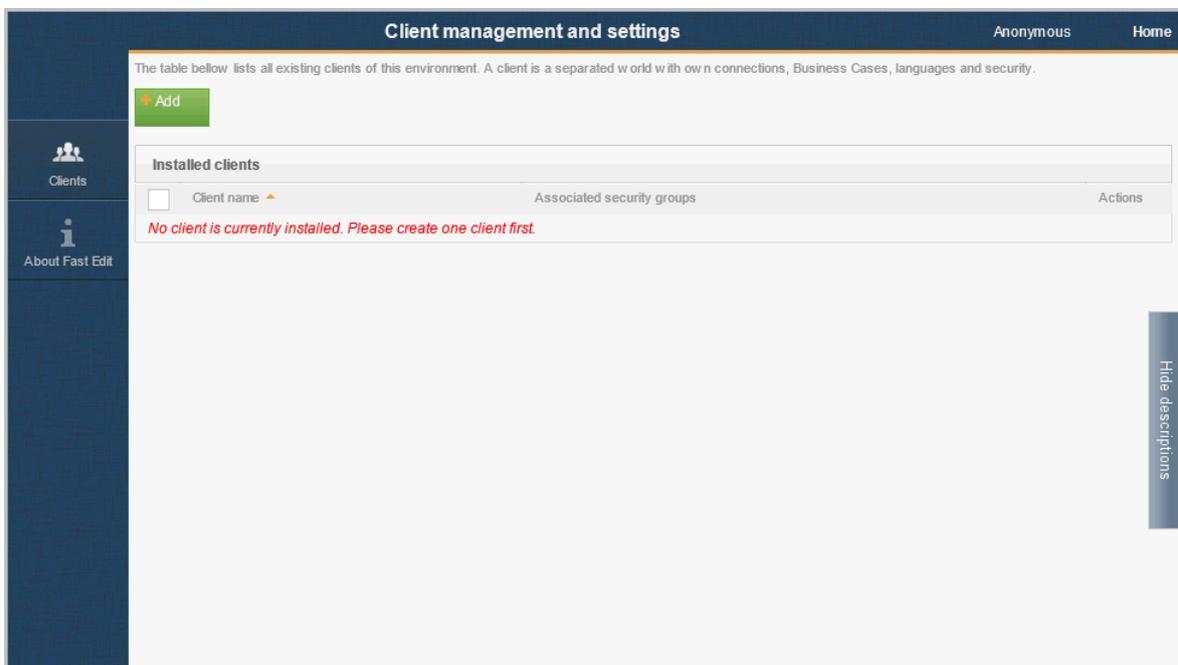
 Apparo Designer Button

 Apparo Table

Drag & Drop the new widget “**Apparo Designer**” into your sheet and press the button.



You should see:



If you get the message “You have insufficient privileges” then you must add the current user into the security group that is necessary to be able to open the Apparo Designer.

5 Installation Apparo clients

1	<p>Preparation</p> <ul style="list-style-type: none"> • Analysing environment • Creation of a database user for the Apparo repository
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Now it is necessary to install the clients.

The screenshot shows a web interface for managing clients. At the top, the title is "Client management and settings" with "Anonymous" and "Home" links. Below the title, there is a text block: "The table below lists all existing clients of this environment. A client is a separated world with own connections, Business Cases, languages and security." A green "Add" button is located below this text. The main content area contains a table titled "Installed clients". The table has three columns: "Client name", "Associated security groups", and "Actions". Below the table, a red message reads: "No client is currently installed. Please create one client first." On the right side of the table area, there is a vertical button labeled "Hide descriptions". The left sidebar contains icons for "Clients" and "About Fast Edit".

Please read now the document **“Configuration Guide”** for defining/importing clients.

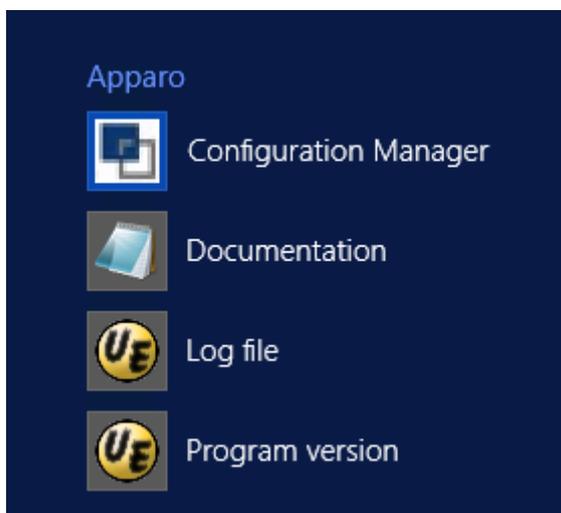
The installation & configuration on serverside is now successfully completed.

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

Windows Start (left corner) / All Programs / Apparo / Documentation



Movies about Apparo Fast Edit:

<http://movies.apparo.solutions>

General documentation about Apparo Fast Edit:

<http://doc.apparo.solutions>

6 Unattended configuration

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

6.1 Importing definitions

Important: At this time the Apparo Fast Edit application must already run.

The import program is stored in the file directory "import": [APPARO_HOME]\FastEdit\import

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

-afeUrl <URL>	The Apparo Fast Edit URL address that will export the data. Example: http://localhost:18000/KFE. If you don't use this argument then the export is using the application server of this installation and its installation port.
-clientId <CLIENT_ID>	ID of a client that Business Cases, language definitions, database messages or connection definitions will be imported into.
-f <FILE>	The file that contains the client, Business Case, language definition, database messages or connection definitions.
-h	Displays this help text
-importSecurity <true false>	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.
-overwriteBc <true false>	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.
-overwriteClient <true false>	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.
-overwriteConnection <true false>	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.

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

Sample: **afe-import.bat -f \etc\definition.xml -clientId Samples**

6.2 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:

-afeUrl <URL>	The Apparo Fast Edit URL address that will export the data. Example: http://localhost:18000/KFE. If you don't use this argument then the export is using the application server of this installation and its installation port.
-bcid <BUSINESS_CASE_ID>	ID of a Business Case you want to export.
-clientId <CLIENT_ID>	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.
-dbc <CONN_NAME>	Name of a database connection you want to export.
-emailc <CONN_NAME>	Name of an email connection you want to export.
-f <FILEPATH>	Filename & path where to write the exported XML.
-folderPath <PATH>	Path of a folder you want to export. It should start with a slash character '/' which should also be used as a path separator.
-h	Displays this help text

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

Sample: **afe-export.bat -f \etc\definition.xml -clientId DemoClient**

7 Browser requirements

7.1 Supported browsers and versions

Microsoft Internet Explorer 8-10 (not recommended, execution is slow)
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)

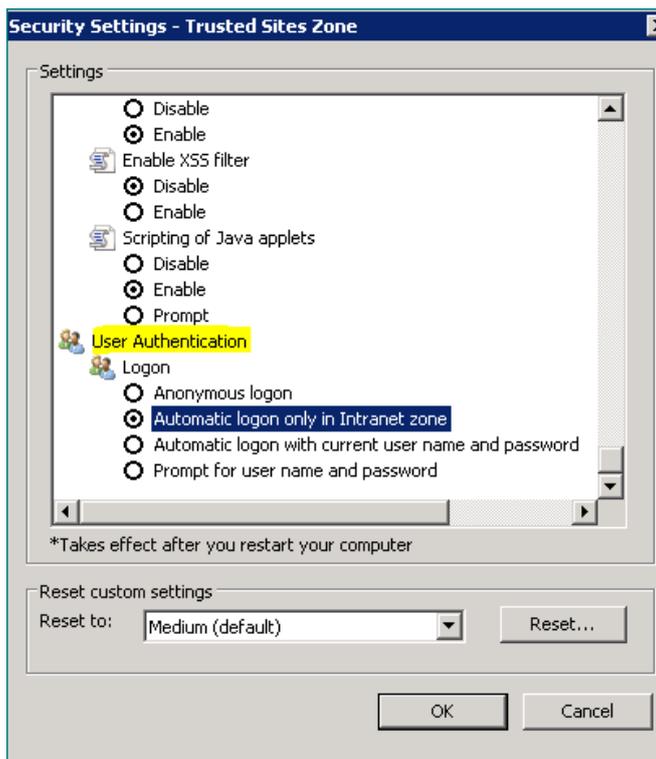
7.2 Supported operating systems for client browsers

Microsoft Windows

7.3 Additional settings for Microsoft Internet Explorer only

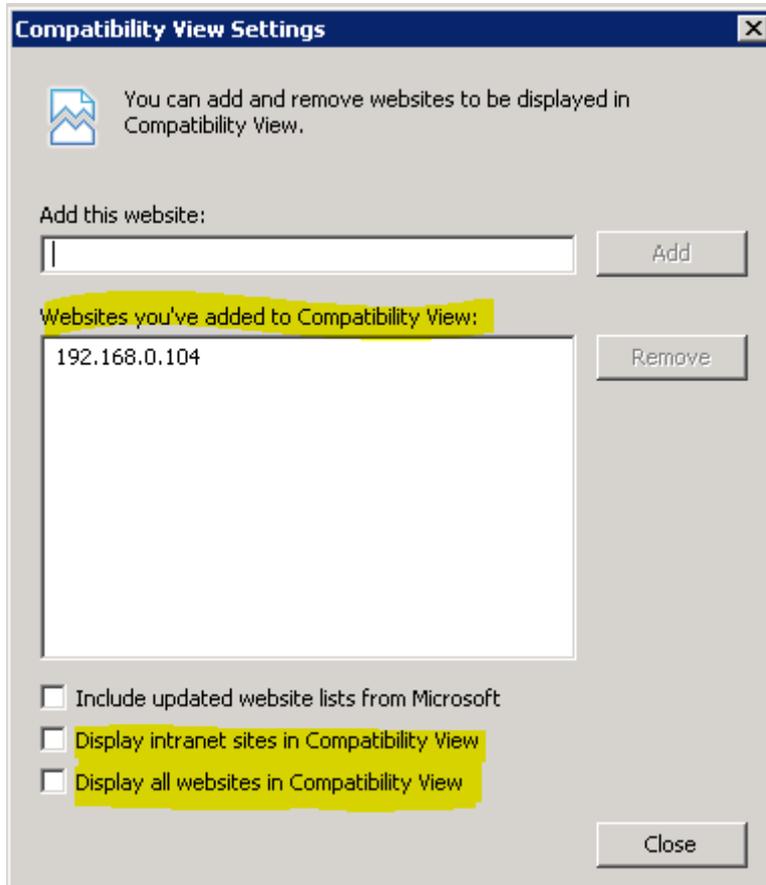
- Domain name of Apparo Fast Edit web server must be in trusted sites
- “about:blank” must be in trusted sites

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.

7.4 Additional settings for all browsers

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

8 Support

If you need support please write an eMail to:

support@apparo.solutions