keyon

User-Manual

true-Broker Web

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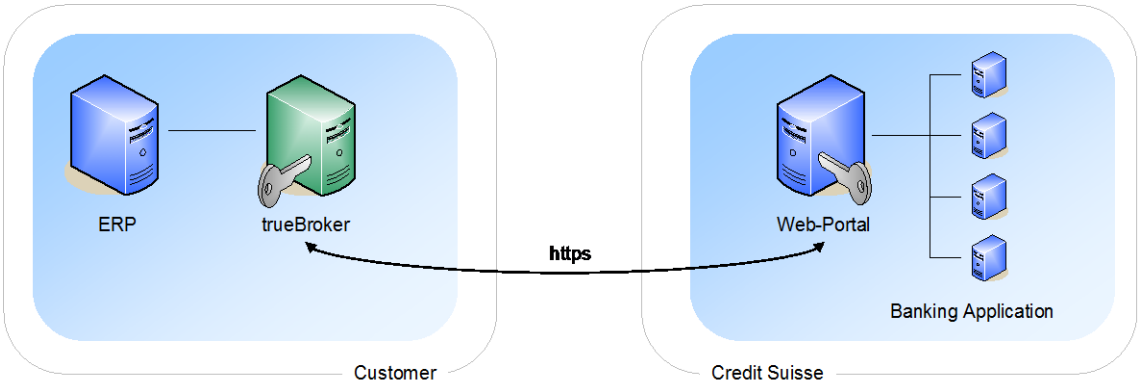
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1 Overview

true-Broker enables Credit Suisse customers to automatically exchange data with B2B applications of Credit Suisse over the Internet. true-Broker Web is responsible to establish a secure communication with the Credit Suisse Web-Portal. The communication is secured using 128bit SSL/TLS with mutual certificate based authentication.



true-Broker Web is a Web application running on an Apache Tomcat server.

true-Broker Web is multi-client capable. true-Broker Web Administration may be used to manage the client instances of true-Broker Web. For each client a specific true-Broker Web application instance is deployed on Apache Tomcat which separates it from the other clients.

The configuration of each true-Broker Web client instance is held in an internal data base.

true-Broker Web additionally offers a Web service interface for real time message exchange. The supported operations of the Web service interface are:

- Check the connection to the target system
- Transfer message from the client system to the target system
- Check the status of a sent message
- Receive a message from the target system

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1.1 System Requirements

Operating systems

- Microsoft Windows Server 2003
- Microsoft Windows XP
- Microsoft Windows Server 2008 R2 x64
- Microsoft Windows 7 x86 / x64

Software

- true-Broker Web 1.5.x
- Token middleware
    - SafeNet Authentication Client 8.0

Hardware

- 20 GB free hard disk
- 1 GB RAM
- free USB port
- Token

Name	Token
Aladdin eToken	
SafeNet iKey 4000	

Other

- Administrator rights
- https access to the Internet (proxy configuration parameters if required)
- Unbound local port 8645
- Firewall allowing connections to http://localhost:8645

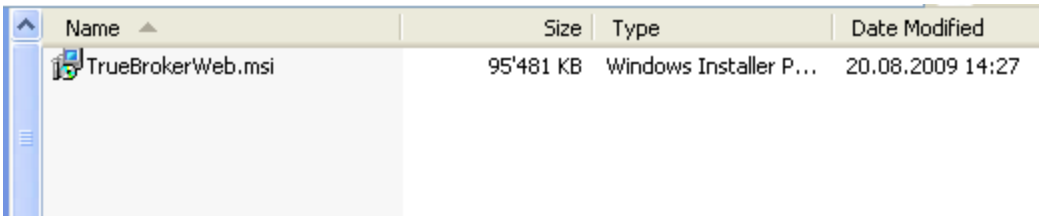
Installing ***SafeNet Authentication Client 8.0*** may require a reboot of the system.

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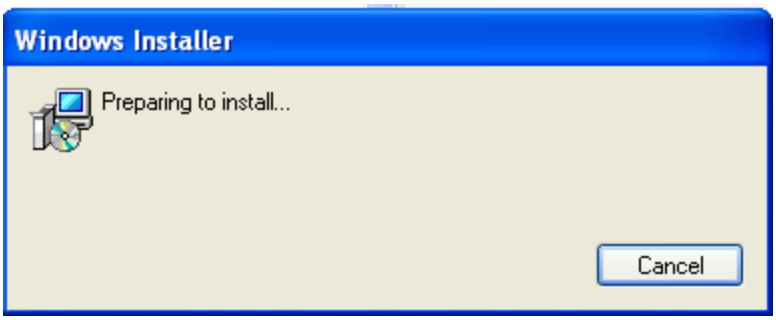
2 Installing true-Broker Web

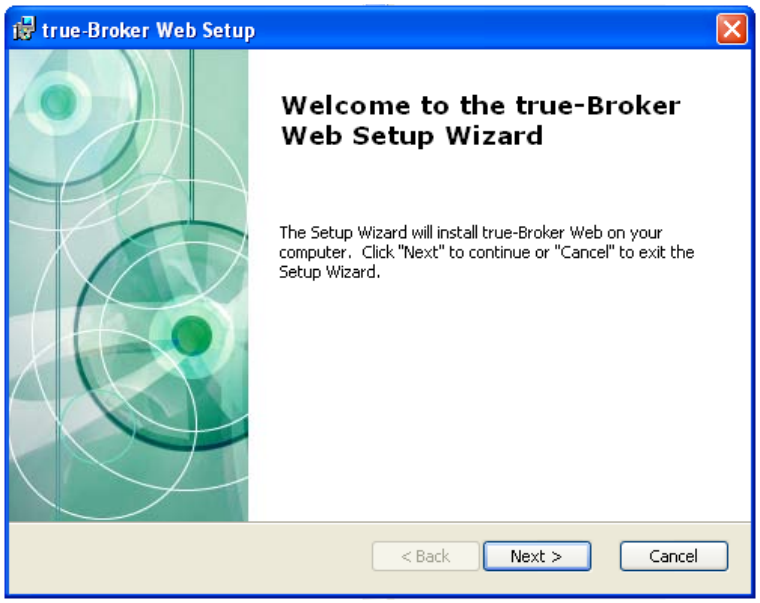
Do not install true-Broker Web using Remote Desktop.

The true-Broker Web installation is based on Windows Installer Packages. Please navigate to the TrueBrokerWeb.msi on the true-Broker Web CD ROM.

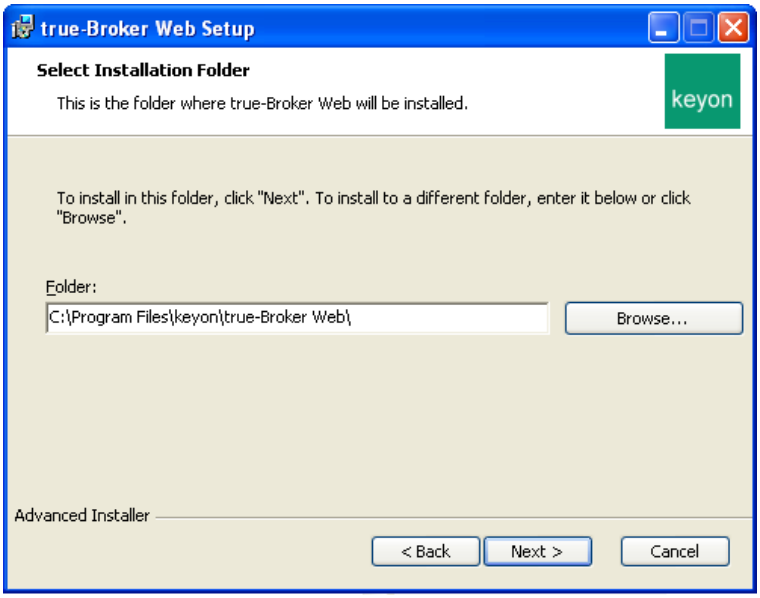


Double-click the TrueBrokerWeb.msi to start the installation process.

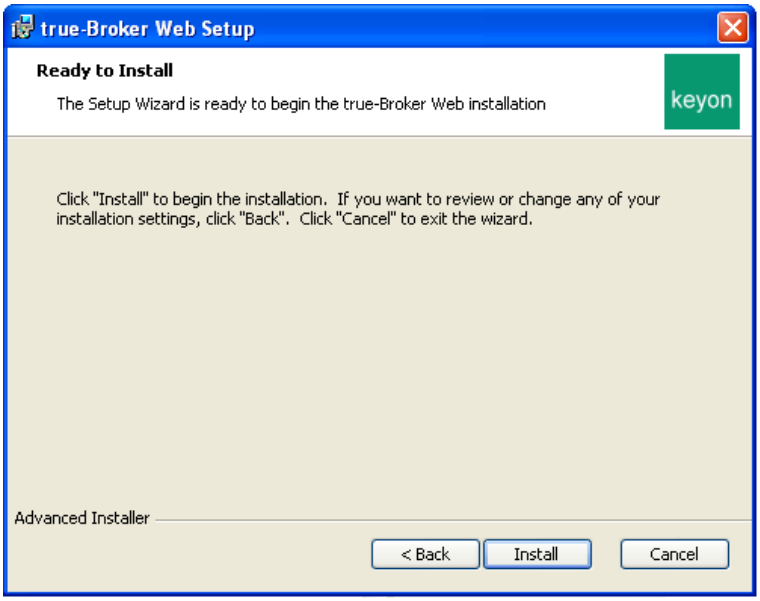




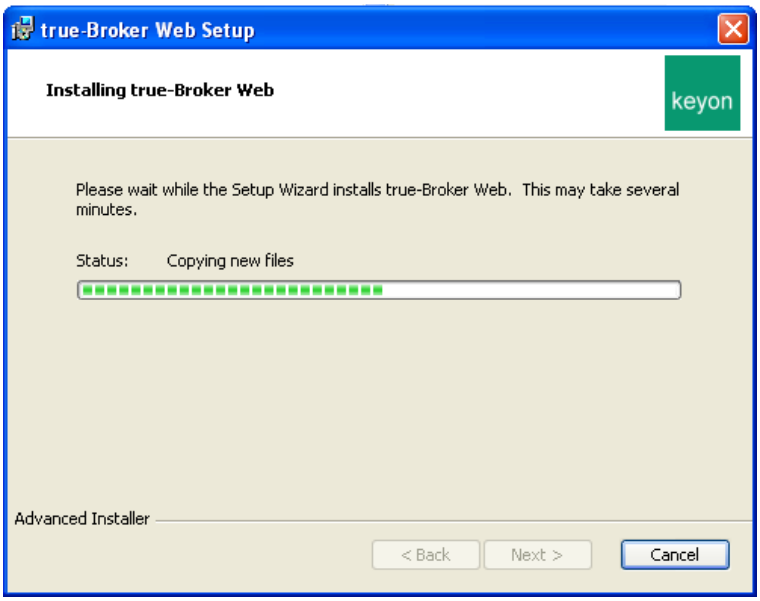
Press ***Next*** to continue or ***Cancel*** to abort the installation process.



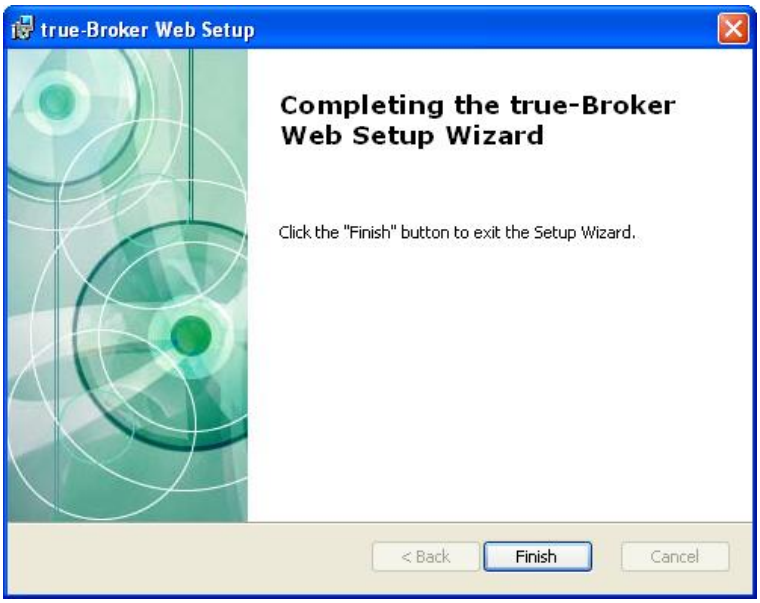
Please select the folder where to install true-Broker Web. Press ***Next*** to continue.



Click ***Install*** to start the installation.



The installation process copies the necessary files to the previously defined installation directory, installs Apache Tomcat as a Windows Service and starts it.



Press *Finish* to end the installation process. True-Broker Web is now installed and ready to be used.

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To complete the installation please install the token middleware according to the token you are intending to use. The following security tokens are currently supported:

Name	Token
Aladdin eToken	
SafeNet iKey 4000	

The installation process is described in the following document:

- SafeNet Authentication Client Installation Guide

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3 Updating true-Broker Web

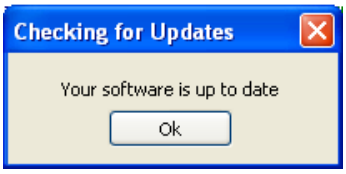
3.1 Using Check for Updates

Use the ***Check for Updates*** menu item in the ***keyon*** → ***true-Broker Web*** menu to start the update process.

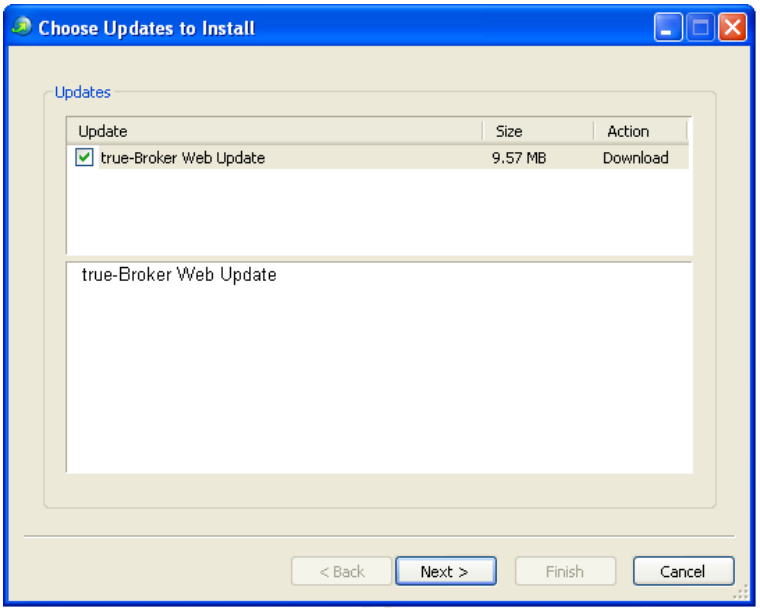


The update process checks online whether updates are available. The update process uses the Internet Explorer connection settings to establish a connection to the update page using http. The update page is located on http://www.keyon.ch.

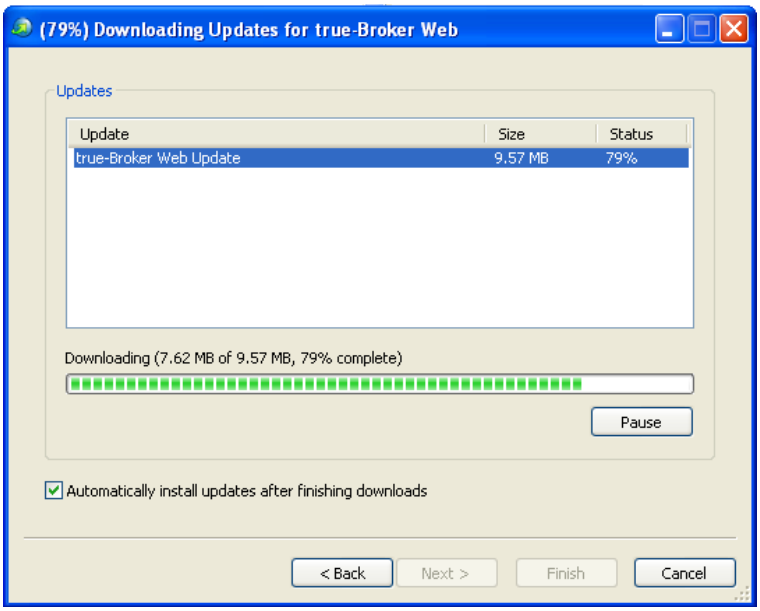
If your true-Broker Web Installation is up to date the following message window is displayed.



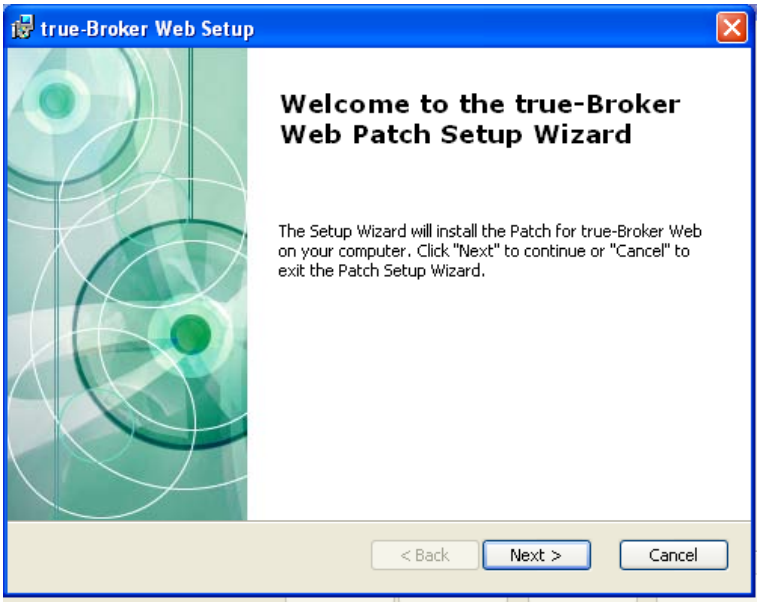
If an update is available the following window is displayed.



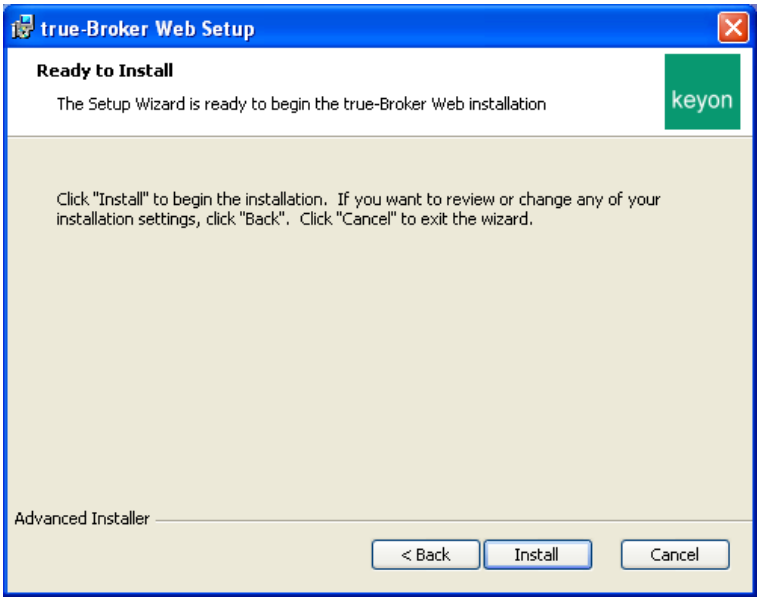
Press ***Next*** to start the update process.



The update process downloads the patch and starts the patch installation process.

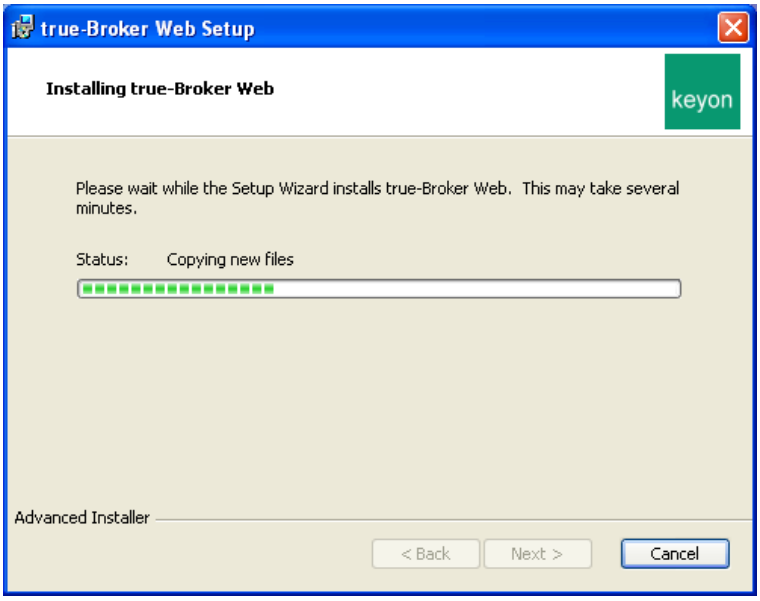


Press ***Next*** to start the patch install process.

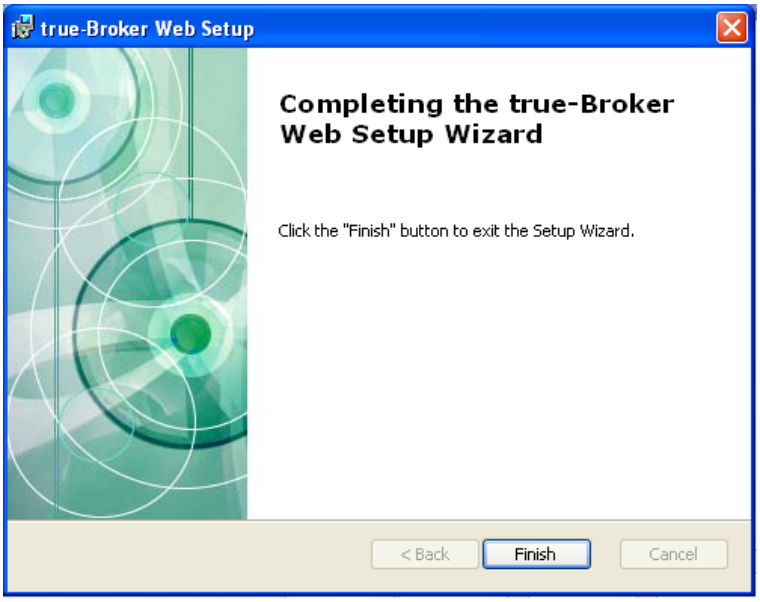


Press ***Install*** to begin the installation.

The data base holding the true-Broker Web configuration will not be changed during the patch installation process.

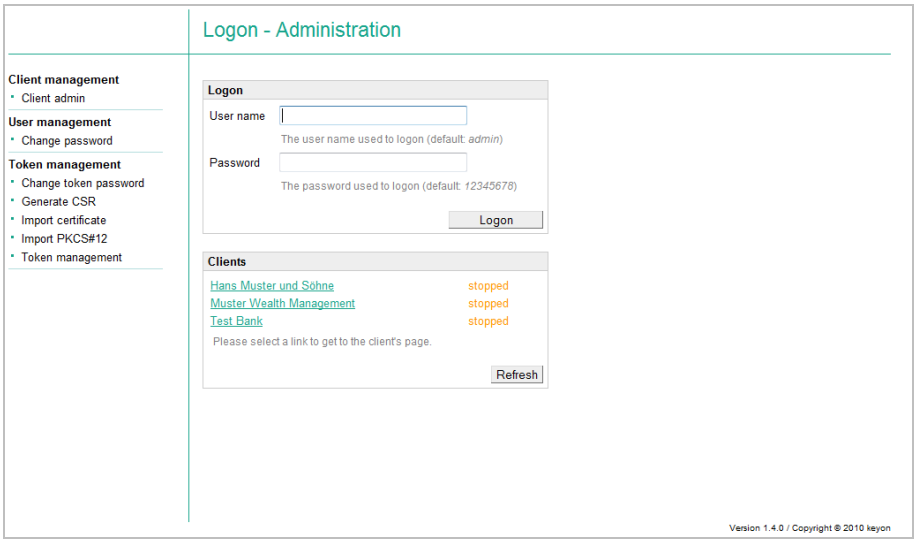


During the patch installation process the Apache Tomcat Windows service is stopped and the new files are copied to the installation directory.



Press Finish to terminate the patch installation process. At the end of the patch installation process the Apache Tomcat Windows service is restarted.

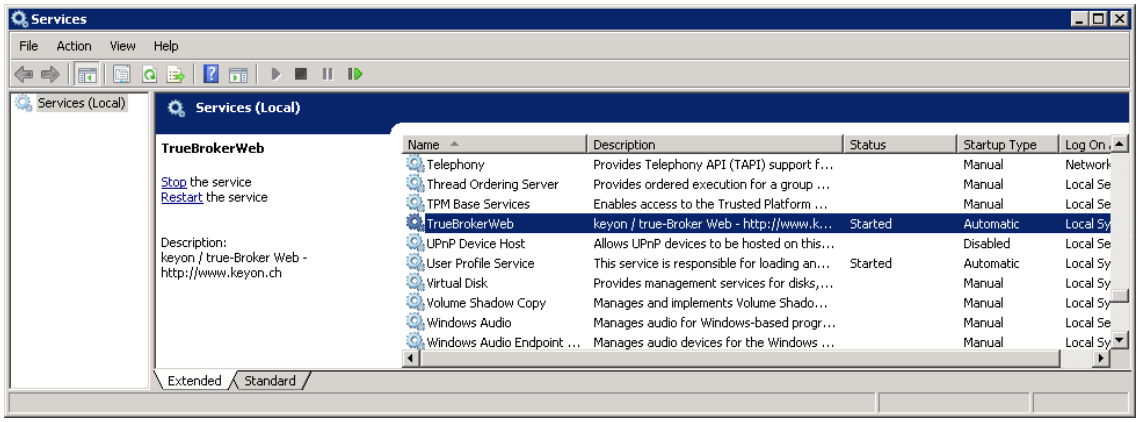
If the patch update terminated successfully the true-Broker Web applications should show the new version in the lower right corner of the main page.



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4 True-Broker Web Windows service

The installation process tries to install true-Broker Web as a Windows service. The Windows service is named ***TrueBrokerWeb***. If true-Broker Web has been installed as a Windows service you can use the ***Microsoft Services Console*** to administrate the service.



To install true-Broker Web as a Windows service Administrator rights are needed.

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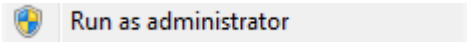
4.1 Configure true-Broker Web Windows service

Before changing the true-Broker Web Windows service configuration stop the service using the ***Microsoft Services Console***.

To change the true-Broker Web Windows service configuration open the file:

C:\Program Files\keyon\true-Broker Web\trueBrokerWeb.ini

On an operating system with UAC enabled run the editor as administrator.




```
★★★★★★★★★★
[Java Runtime Environment]
JVM Source=favor_JDK
Library Path=C:\Program Files\keyon\true-Broker Web\server\bin\;
JVM Type=favor_server
Main Class=ch.keyon.truebroker.web.tomcat.TrueBrokerWebTomcat
Minimum Version=1.6
Maximum Version=1.6
JRE Path=C:\Program Files\keyon\true-Broker Web\jre\
Virtual Machine Parameters=-Xms128M -Xmx1024M -Dderby.system.home="C:\Program
Files\keyon\true-Broker Web\\db" -Djava.util.logging.config.file="C:\Program
Files\keyon\true-Broker Web\\server\conf\logging.properties" -
Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager -
Djava.endorsed.dirs="C:\Program Files\keyon\true-Broker Web\\server\endorsed" -
Dcatalina.base="C:\Program Files\keyon\true-Broker Web\\server" -
Dcatalina.home="C:\Program Files\keyon\true-Broker Web\\server" -
Djava.io.tmpdir="C:\Program Files\keyon\true-Broker Web\\server\temp" -
XX:PermSize=128m -XX:MaxPermSize=256m
[Application]
Override WorkingDir=yes
Application Type=service
[Class Path]
Class Path=C:\Program Files\keyon\true-Broker Web\server\bin\bootstrap.jar;...
Web\server\bin\TrueBrokerWebTomcat.jar;
[Product Information]
Upgrade Code={742F478B-345E-4FD7-98D5-91BEBB77E61B}
Product Code={49F7352E-CA7A-4C12-85D2-6F254DBD234C}
Product Name=true-Broker Web
★★★★★★★★★★
```

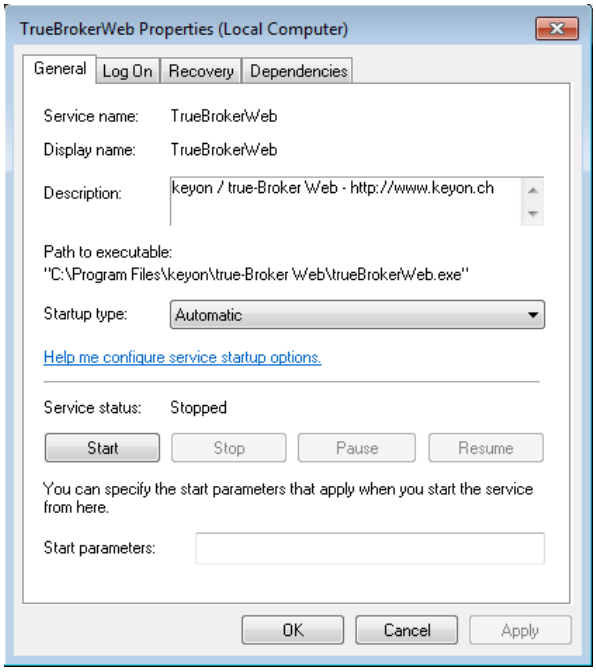
Use the ***Microsoft Services Console*** to start the true-Broker Web Windows service.

Do not change these setting unless you were advised by keyon support to do so.

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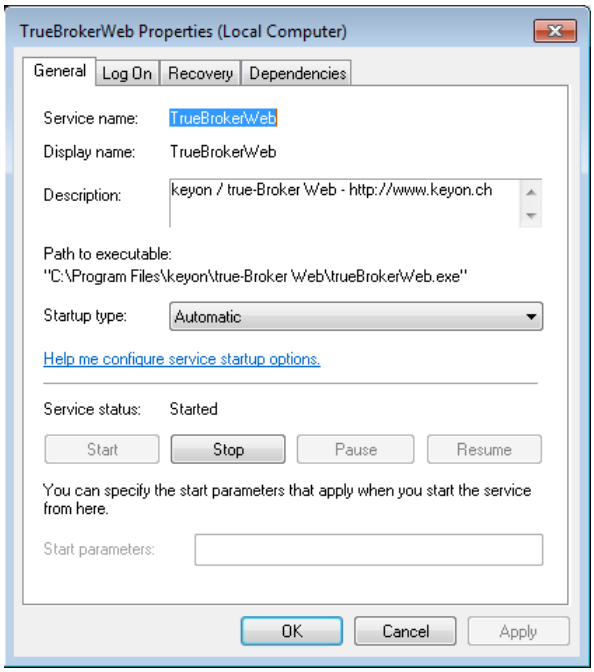
4.2 Starting true-Broker Web Windows service

Start the true-Broker Web Windows service using the ***Microsoft Services Console***.



4.3 Stopping true-Broker Web Windows service

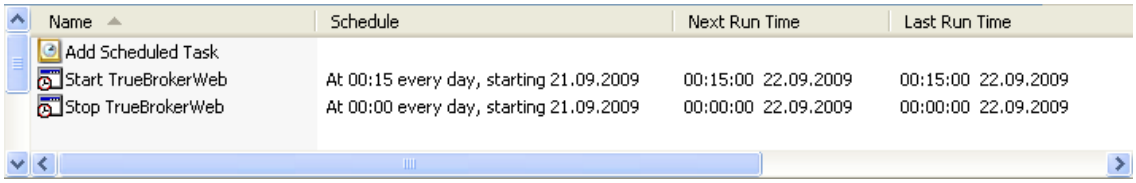
Stop the true-Broker Web Windows service using the ***Microsoft Services Console***.



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4.4 Daily restart of Apache Tomcat Windows service

The Apache Tomcat Windows service is daily restarted at 00:00. The Windows service is stopped at 00:00 and started at 00:15 AM.



You can change the restart settings in the ***Scheduled Task*** option of the Windows ***Control Panel***.

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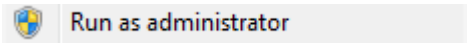
5 True-Broker Web Windows console

5.1 Starting true-Broker Web as console

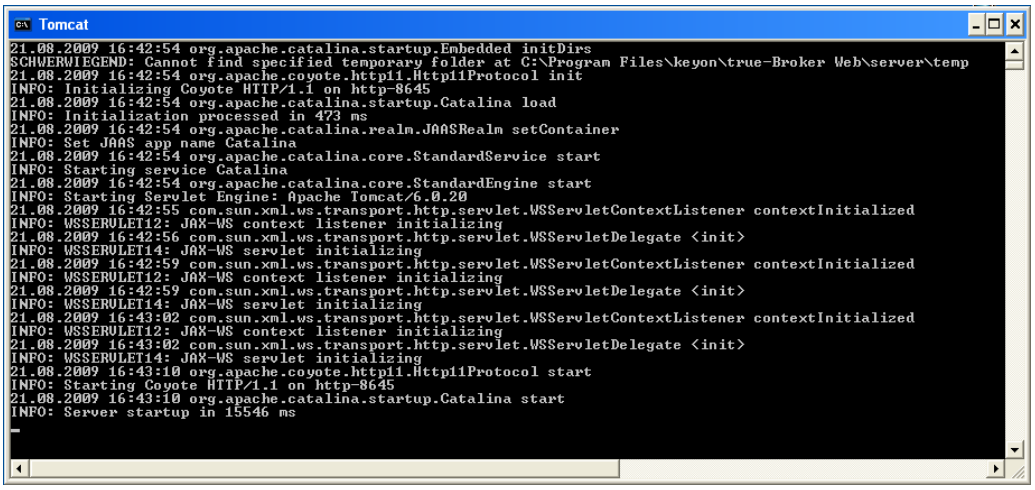
If you want to run true-Broker Web as a console application, run the following executable file:

C:\Program Files\keyon\true-Broker Web\trueBrokerWebConsole.exe

On an operating system with UAC enabled run the executable as Administrator.



True-Broker Web is starting as console application.



5.2 Stopping true-Broker Web console

If true-Broker Web is running as a console application, press ***Control-C*** in the console window to stop the application.

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6 true-Broker Web Administration

true-Broker Web Administration is a Web application running on a Apache Tomcat server. true-Broker Web is multi-client capable. Use the true-Broker Web Administration application to add or delete true-Broker Web client instances. If you add a new true-Broker Web client instance a new Web application is deployed to the Apache Tomcat server.

The URL to access true-Broker Web Administration is:

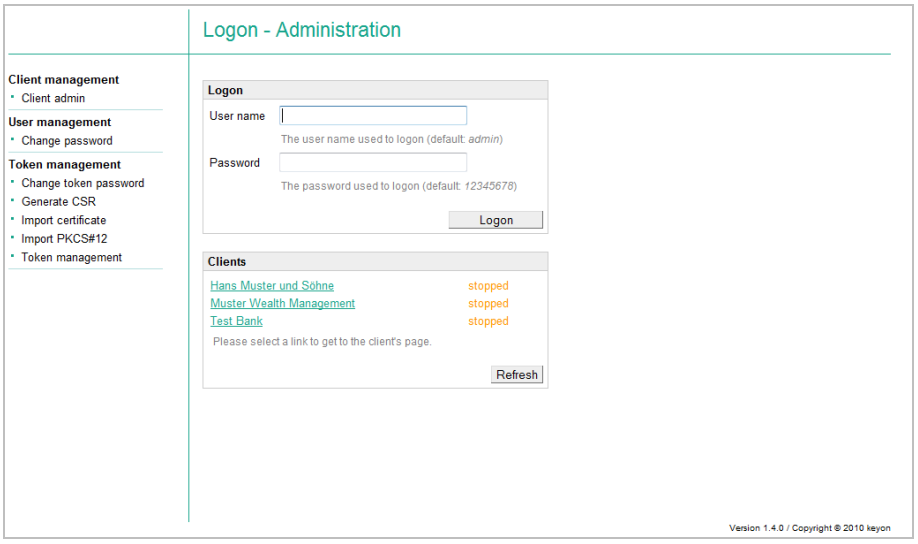
http://localhost:8645/TrueBrokerWebAdmin/main.do

Use the link above or select the ***true-Broker Web Admin*** menu item in the ***keyon*** → ***true-Broker Web*** menu to open the URL above in your default browser.

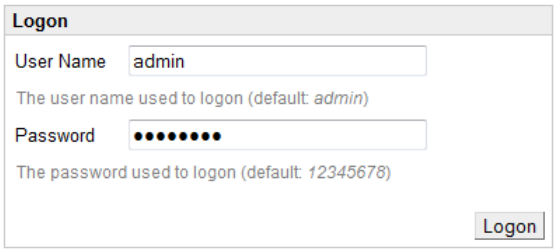


6.1 Logon page

To get access to the true-Broker Web Administration Web application you have to login with a user name and password.



The default user name is ***admin***. The default password is ***12345678***.

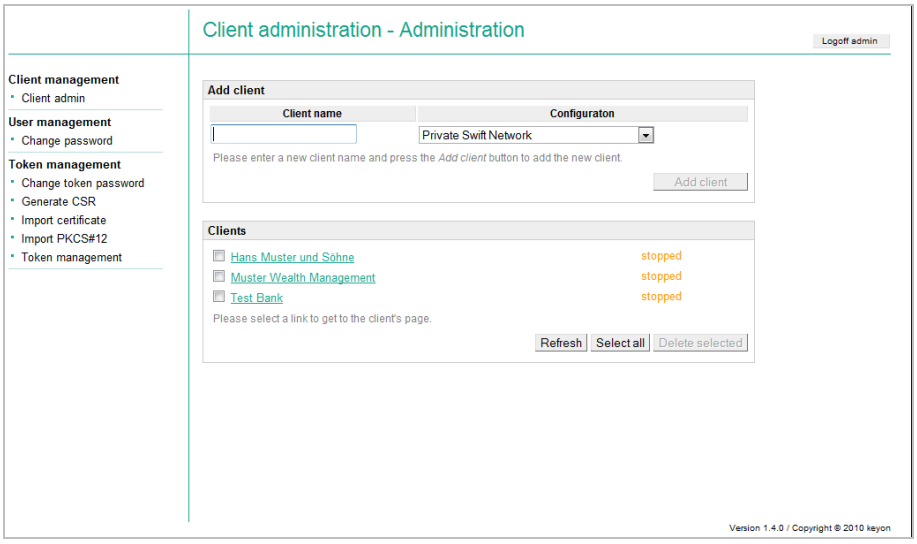


Press the ***Logon*** button to logon to the application.

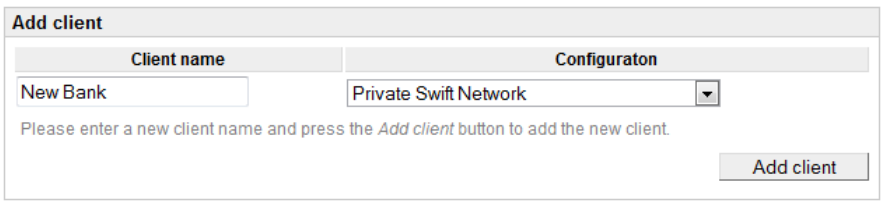
You can change the administrator password using the ***Change password*** link.

6.2 Main page

The main page is used to configure the true-Broker Web clients. true-Broker Web is multi-client capable. For each client a new true-Broker Web application is deployed on the Apache Tomcat server.



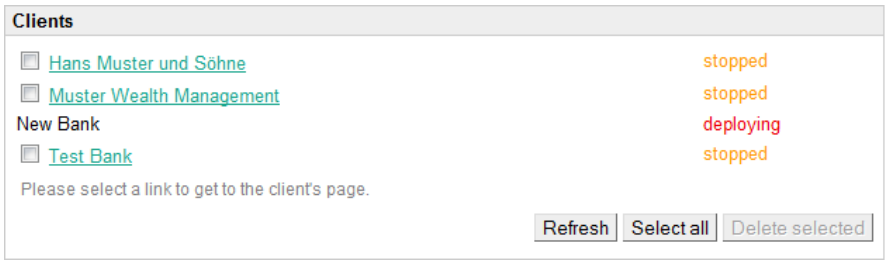
To add a new client enter the client name, select the configuration and press the ***Add client*** button.



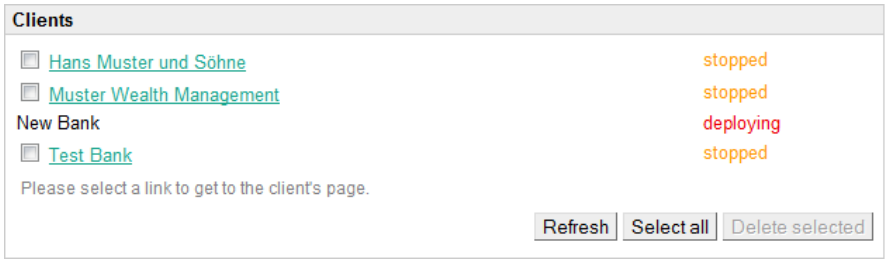
Adding a new client adds a new web application with the selected configuration to the Apache Tomcat server.

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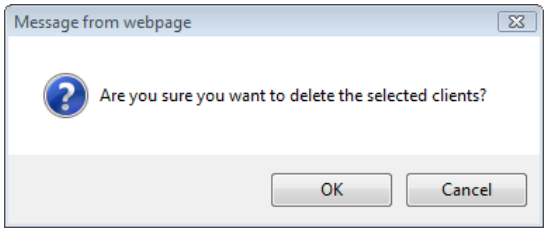
During the deployment phase the client web application cannot be selected. Select the ***Refresh*** button to refresh the page.



As soon as the client application is completely deployed to the Apache Tomcat server you can select the client application or use the link to get to the client true-Broker Web application.



To delete a client web application select the web application and press the ***Delete selected*** button.



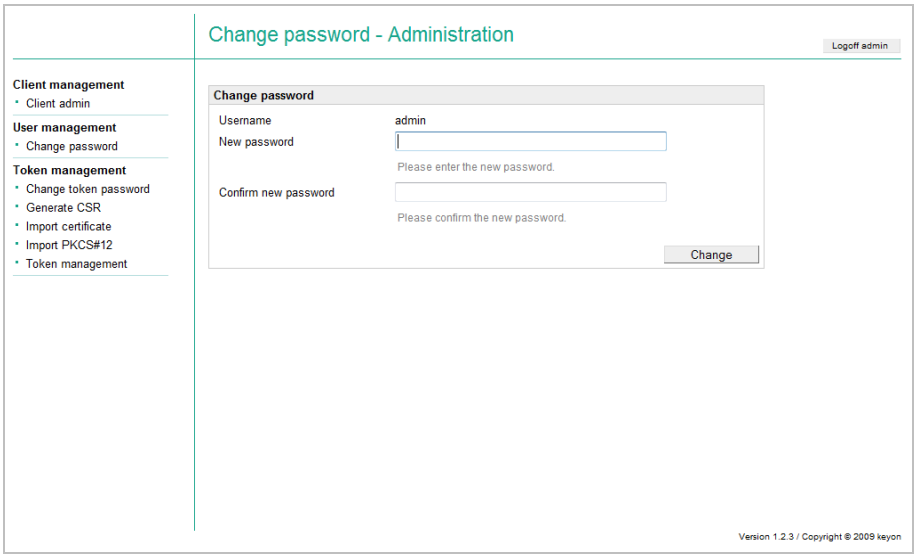
Press ***OK*** to confirm the action.

Be aware that the configuration of the client web application will be deleted. Messages stored in the internal data base are also deleted. Messages downloaded to the configured inbox are not deleted.

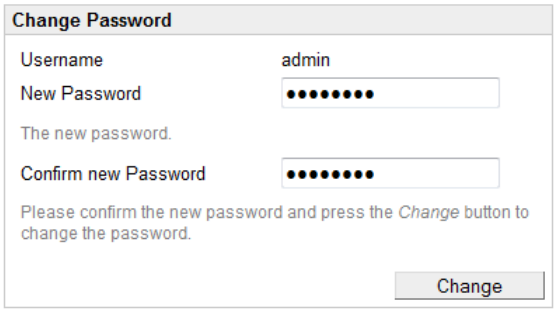
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6.3 Change password page

Use the change password link to change your password.



Enter the new password and confirm it.

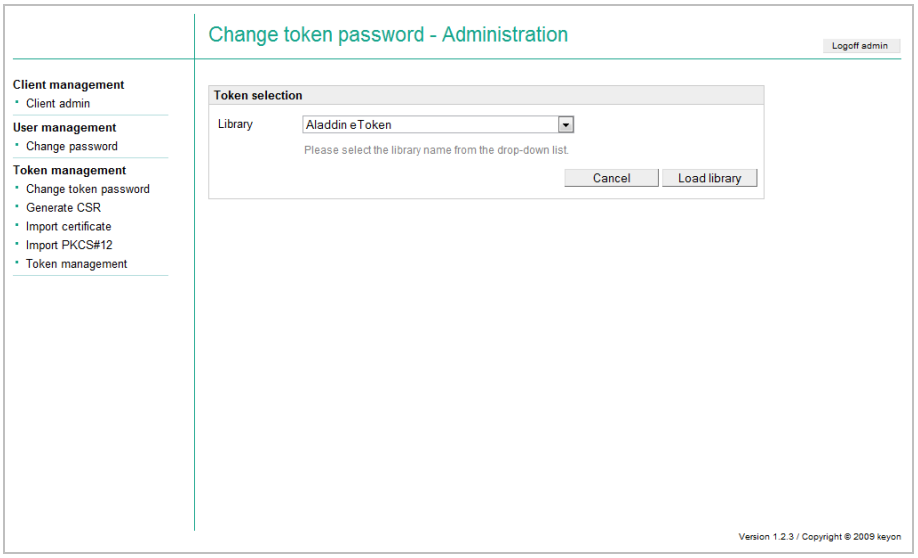


Press the ***Change*** button to change the password.

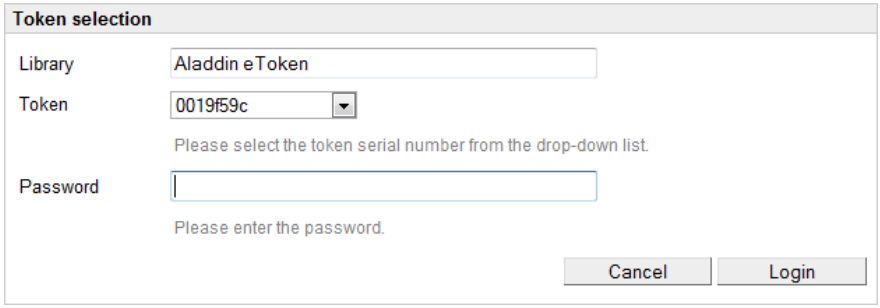
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6.4 Change token password page

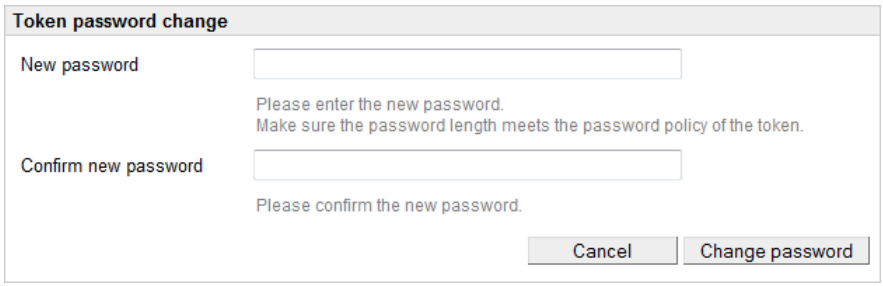
Use the change token password link to change a token password.



Select the library from the drop-down list and press the ***Load library*** button.



Select the token serial number form the drop-down list, enter the password and press the ***Login*** button.



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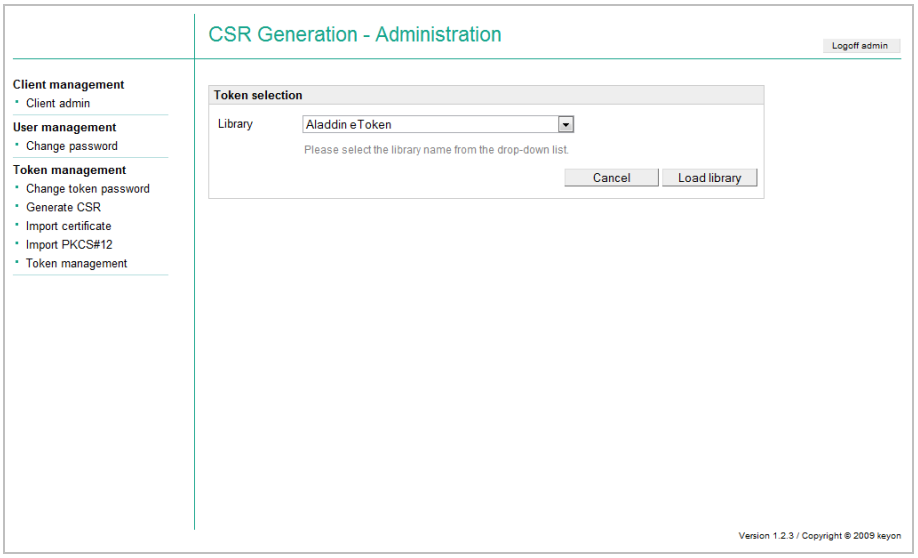
Enter the new password. Make sure the password length meets the password policy of the token. Some token password policies require a minimal password length or the occurrence of special characters.

Press the ***Change password*** button to change the token password.

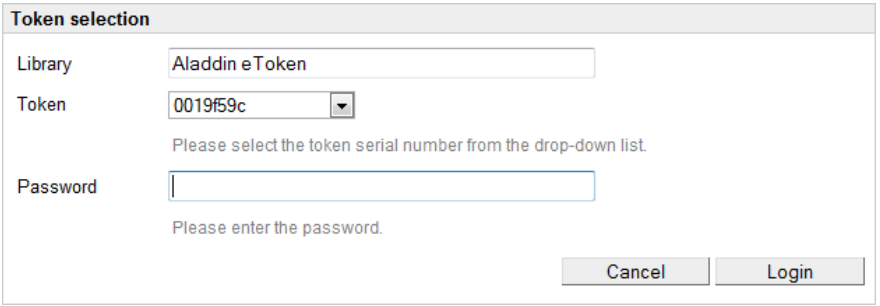
> If the token is used in a client security configuration the configured token password is automatically updated with the new password.

6.5 Generate CSR page

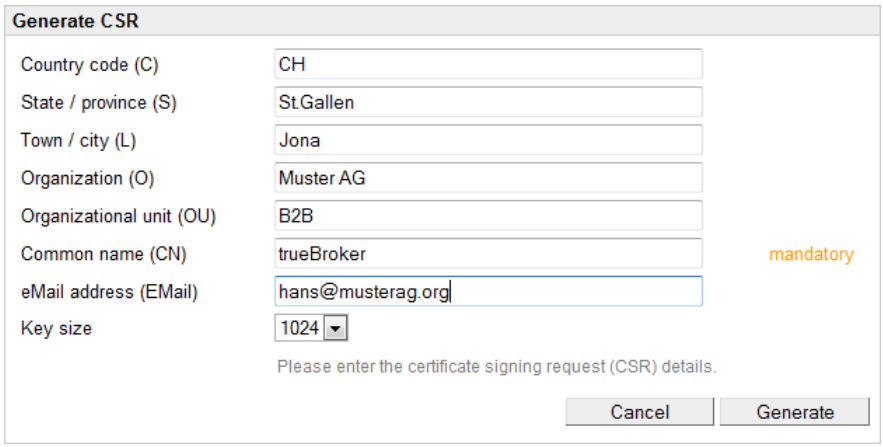
Use the generate CSR link to generate a new key pair on the token and a certificate signing request.



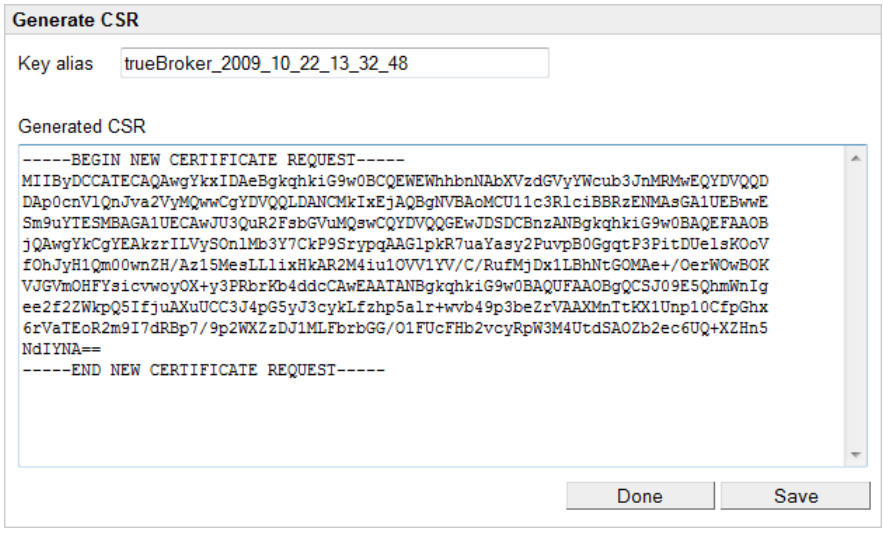
Select the library from the drop-down list and press the ***Load library*** button.



Select the token serial number form the drop-down list, enter the password and press the ***Login*** button.



Make sure to enter all the information required by the certificate authority (CA) that will issue the certificate. Press the ***Generate*** button to generate the key pair and the certificate signing request (CSR).

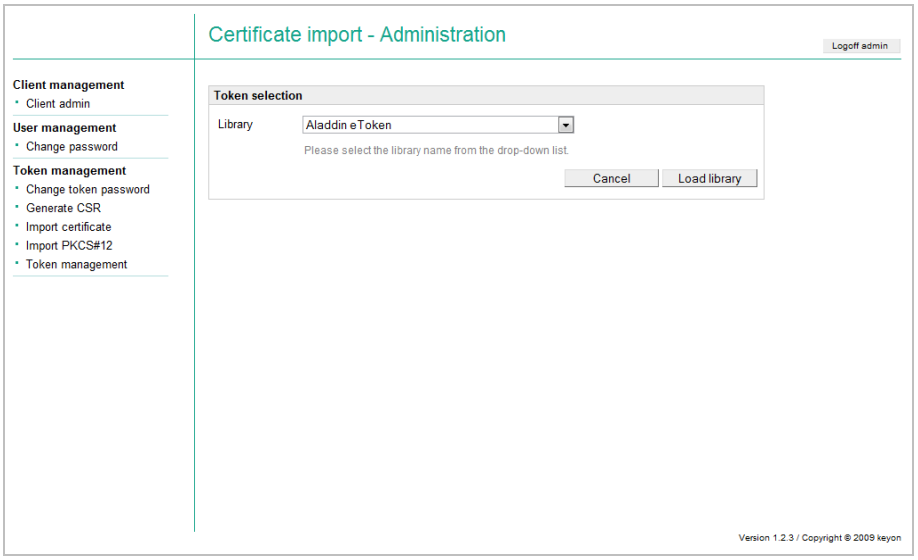


Copy the CSR to the clip-board or use the ***Save*** button to save the CSR to a file.

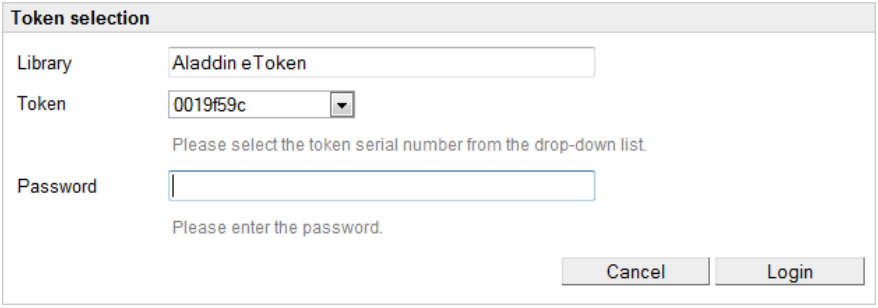
keyon

6.6 Import certificate page

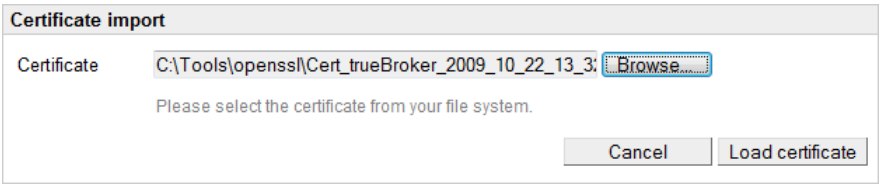
Use the import certificate link to import a certificate into a token containing the matching private key.



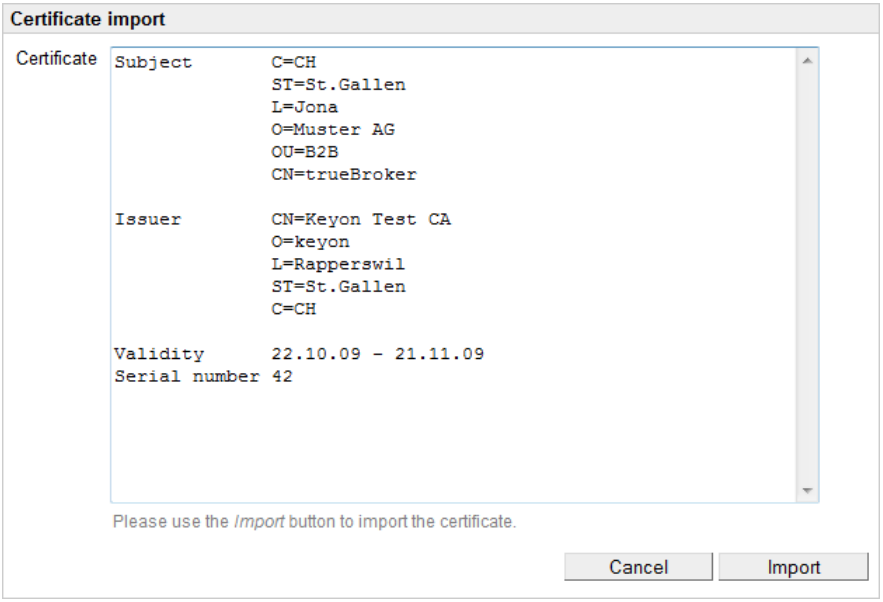
Select the library from the drop-down list and press the ***Load library*** button.



Select the token serial number form the drop-down list, enter the password and press the ***Login*** button.



Use the ***Browse…*** button the load the certificate received by the certificate authority (CA) into the token. Make sure you selected the token where you generated the key pair and the CSR. Press the ***Load certificate*** button to display the certificate.

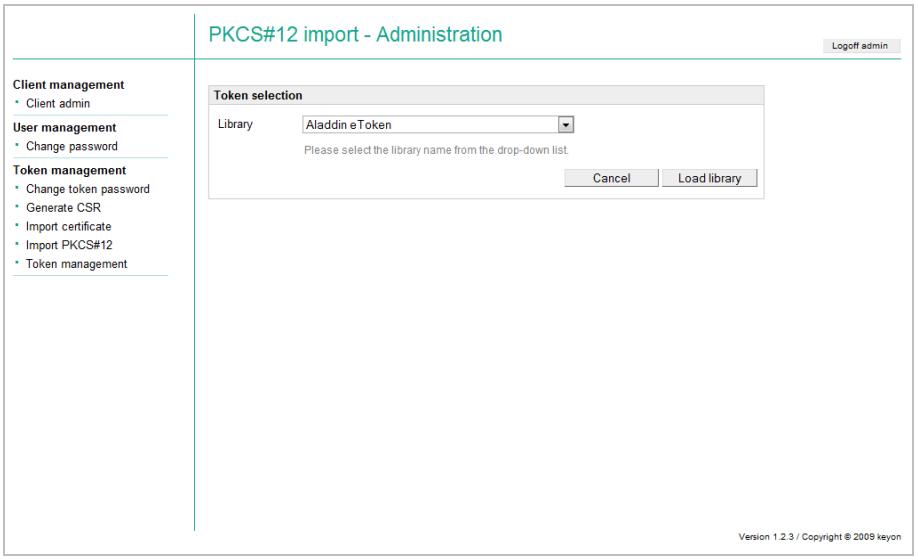


Press the ***Import*** button to import the certificate into the token.

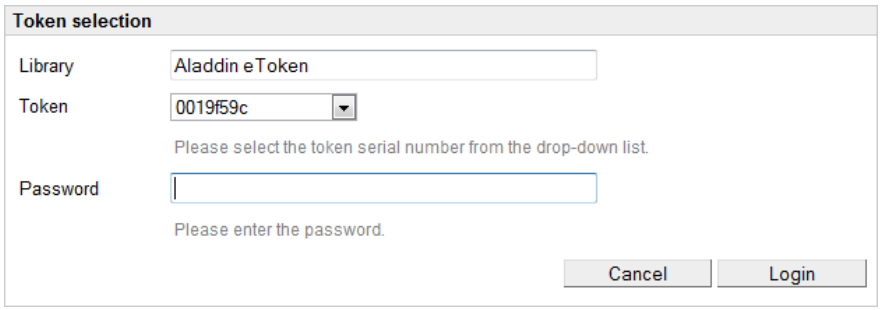
If no matching private key can be found on the token the certificate will not be imported.

6.7 Import PKCS#12 page

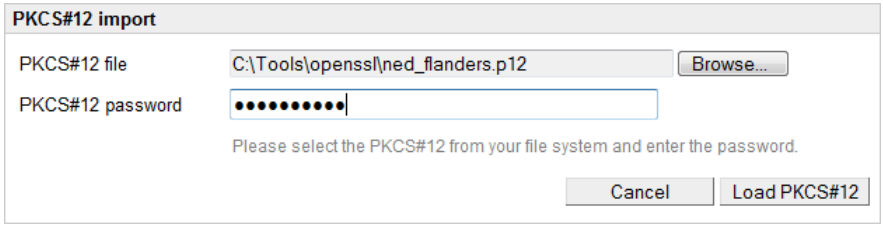
Use the import PKCS#12 link to import a certificate and private key into a token.



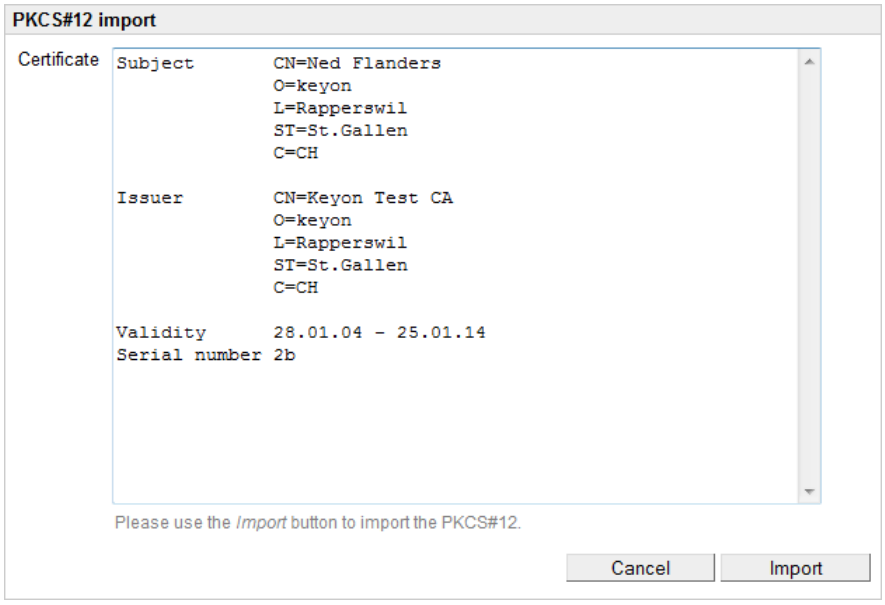
Select the library from the drop-down list and press the ***Load library*** button.



Select the token serial number form the drop-down list, enter the password and press the ***Login*** button.



Use the ***Browse…*** button to select the PKCS#12 file from the file system. Enter the PKCS#12 password and press the ***Load PKCS#12*** button to display the certificates.

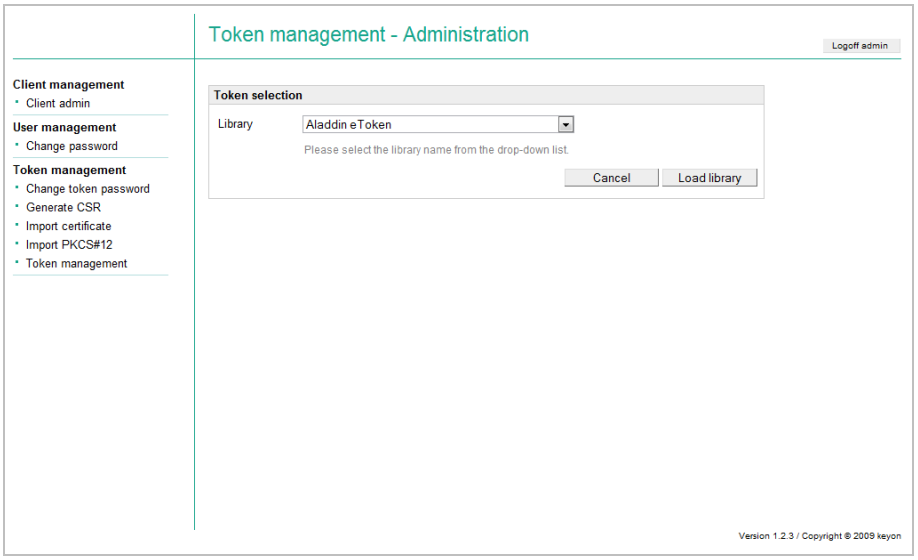


Use the ***Import*** button to import the certificate and private key into the token.

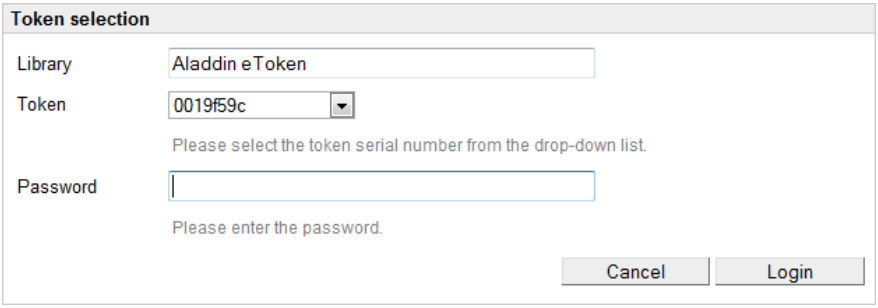
keyon

6.8 Token management page

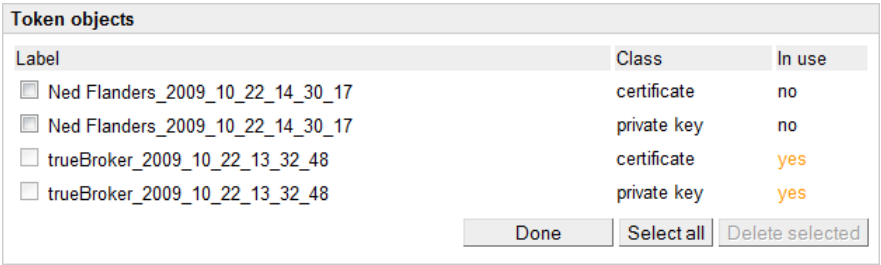
Use the token management link to display or delete the token objects on the token.



Select the library from the drop-down list and press the ***Load library*** button.



Select the token serial number form the drop-down list, enter the password and press the ***Login*** button.



The table shows the objects stored on the token. The objects may be a certificate, private or public key. You may delete unused objects from the token. You cannot delete objects that are used by a client security configuration.

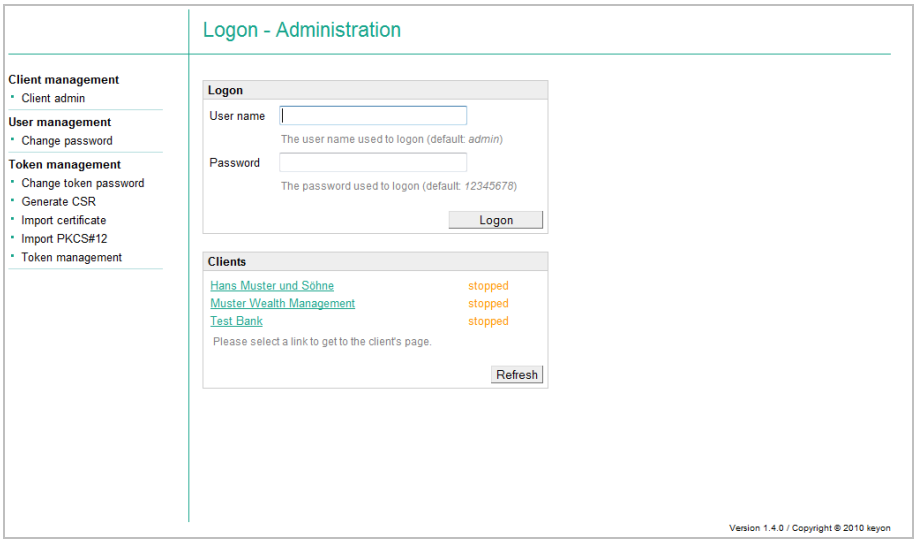
keyon

6.9 Logoff

To logoff from the true-Broker Web Administration application select the ***Logoff*** button in the upper right corner.



Pressing the ***Logoff*** button redirects you to the ***Logon*** page.

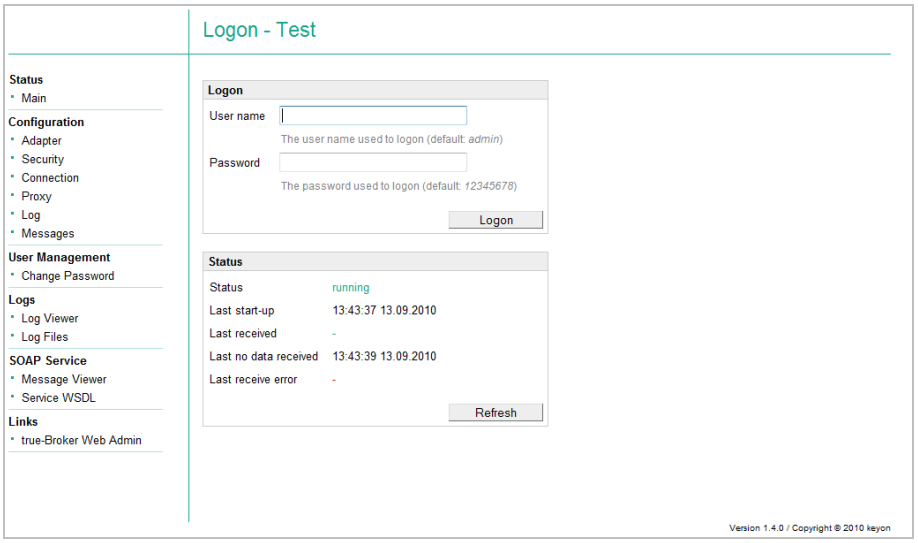


keyon

7 true-Broker Web

true-Broker Web is a Web application running on a Apache Tomcat server. true-Broker Web is used to securely download messages from the specified target system. true-Broker Web further supports a SOAP Web service interface for real time message exchange.

The true-Broker Web application has to be created using the true-Broker Web Administration application. The URL to access true-Broker Web may be selected using the Logon page of true-Broker Web Administration.

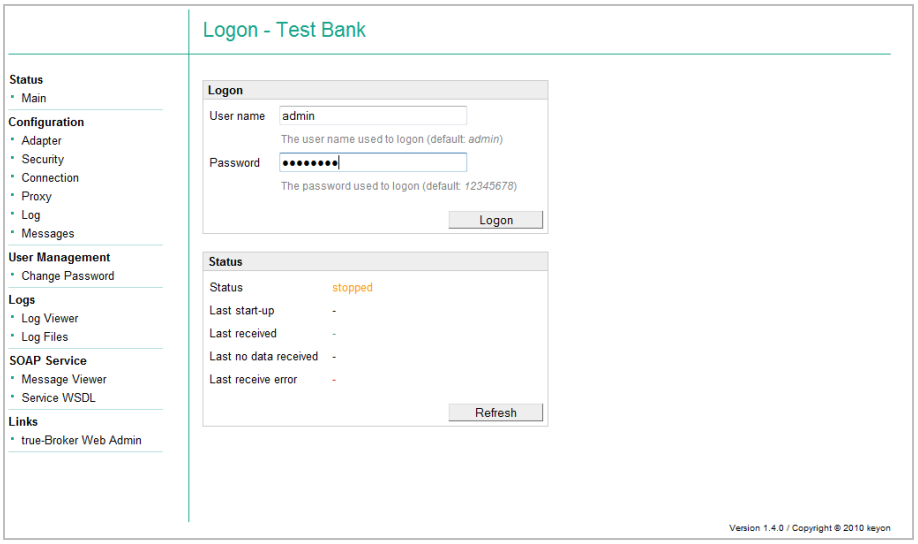


Select the link of your client to get to the Logon page of the corresponding true-Broker Web application.

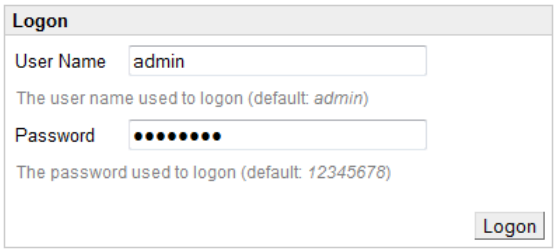
keyon

7.1 Logon page

To get access to the true-Broker Web Administration Web application you have to login with a user name and password.



The default user name is ***admin***. The default password is ***12345678***.



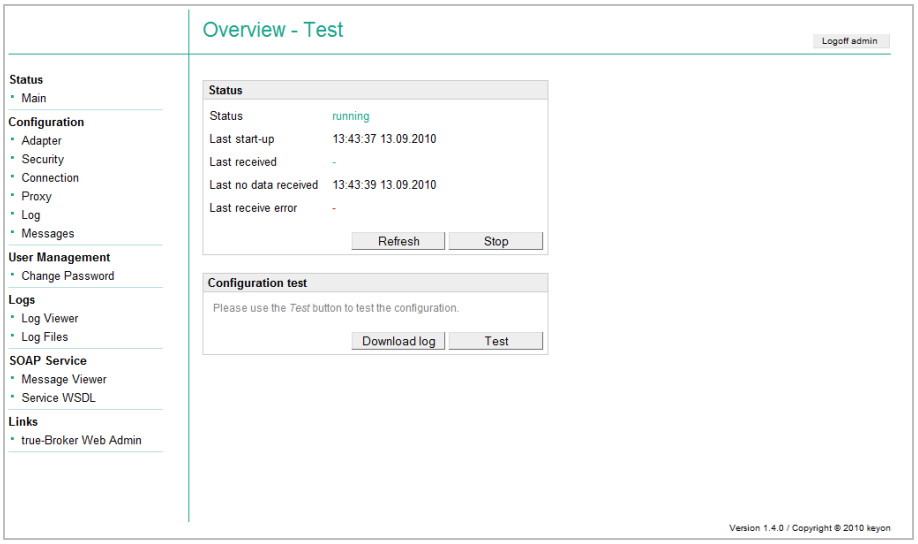
Press the ***Logon*** button to logon to the application.

You can change the administrator password using the ***Change password*** link.

keyon

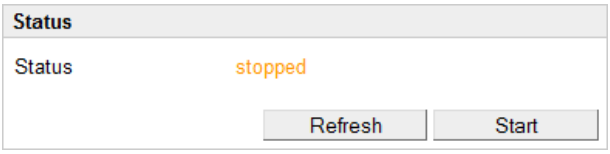
7.2 Main page

The main page is used to start and stop the true-Broker Web application.

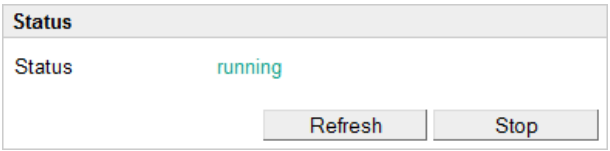


Make sure you have a valid configuration by using the ***Test*** button.

Use the ***Start*** button to start downloading messages. Before you can start downloading messages you have to configure true-Broker Web using the configuration links.

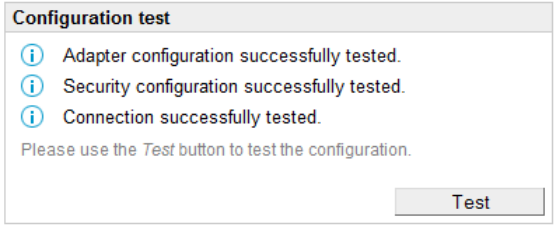


Once the application is running you can use the ***Stop*** button to stop the application.



Use the ***Refresh*** button to refresh the current status.

Before running the application the first time you should test your configuration. Press the ***Test*** button to start the test.

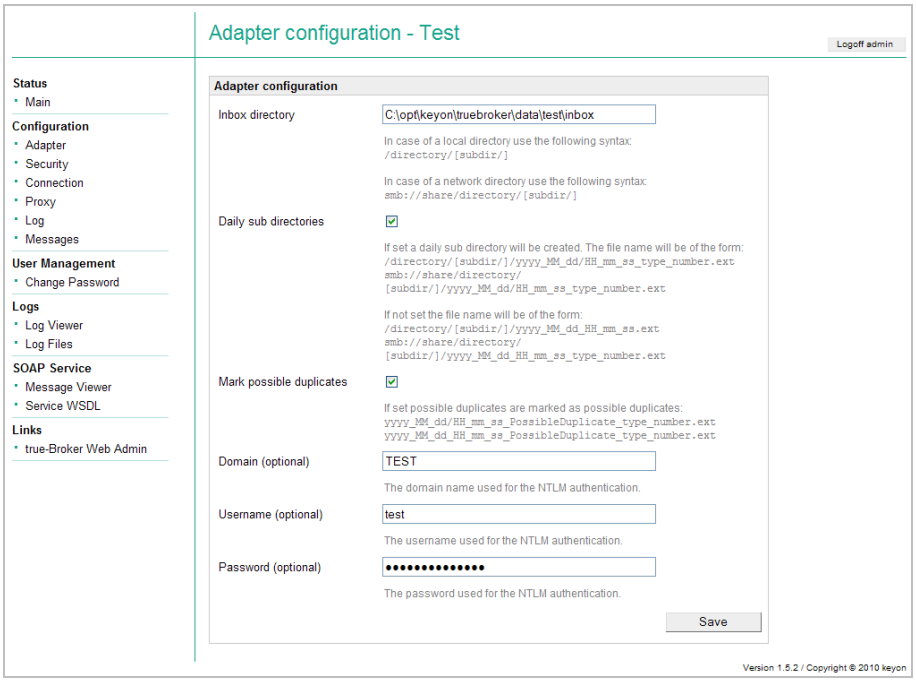


If the test completes successfully you can start the application.

keyon

7.3 Adapter configuration page

Use the adapter configuration page to configure where to store your downloaded messages.



The inbox directory defines the directory where messages are stored. Use the following syntax if you want to store the messages into a local directory:

```
/directory/[subdirectory/]
```

In case of a network directory use the following syntax:

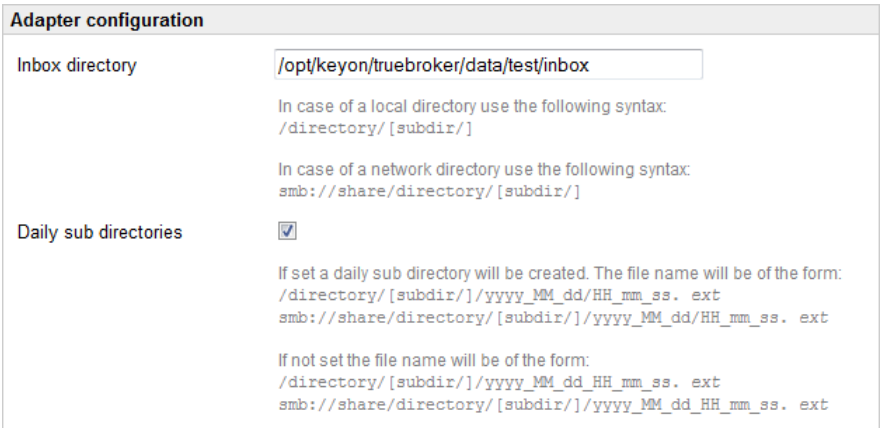
```
smb://share/directory/[subdirectory/]
```

You can optionally copy the URL of your network directory from your explorer:

```
\\share\directory\[subdirectory\]
```

Do not use mapped network drives. The Tomcat Apache server is using the ***System*** account to run and does not have access to mapped network drives.

keyon



Downloaded messages are directly stored in the above inbox directory or a daily sub directory of the inbox directory.

If the ***Daily sub directories*** check box is set a daily sub directory will be created. The file name will be of the form:

`yyyy_MM_dd/HH_mm_ss_MSGTYPE_NUM.txt`

Example:

`2009_07_02/14_35_43_MT515_123456.txt`

If the ***Daily sub directories*** check box is not set the file name will be of the form:

`yyyy_MM_dd_HH_mm_ss_MSGTYPE_NUM.txt`

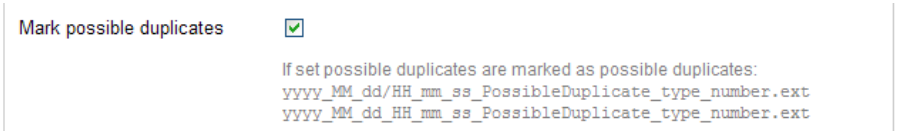
Example:

`2009_07_02_14_35_43_MT515_123456.txt`

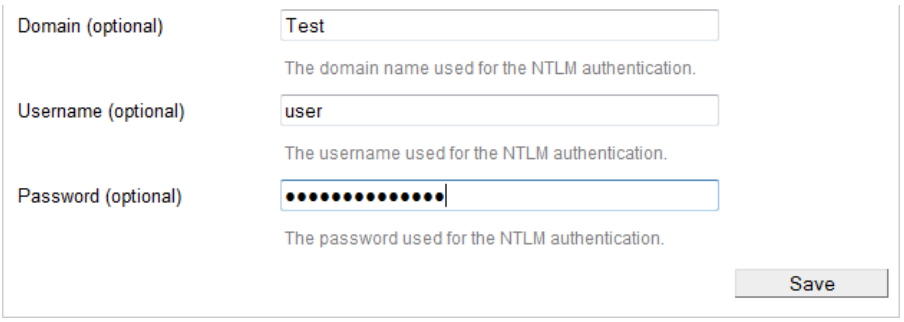
Tag	Description	Example
yyyy	Year	2009
MM	Month in year	07
dd	Day in month	02
HH	Hour in day (0-23)	14
mm	Minute in hour	35
ss	Second in minute	43
MSGTYPE	Message type	MT515
NUM	Unique number	123456

keyon

In case a message could be a possible duplicate the message is prefixed with “PossibleDuplicate”. If the check box is selected the possible duplicates are marked:



Please define the Domain, username and password if NTLM authentication is needed to access the network directory.



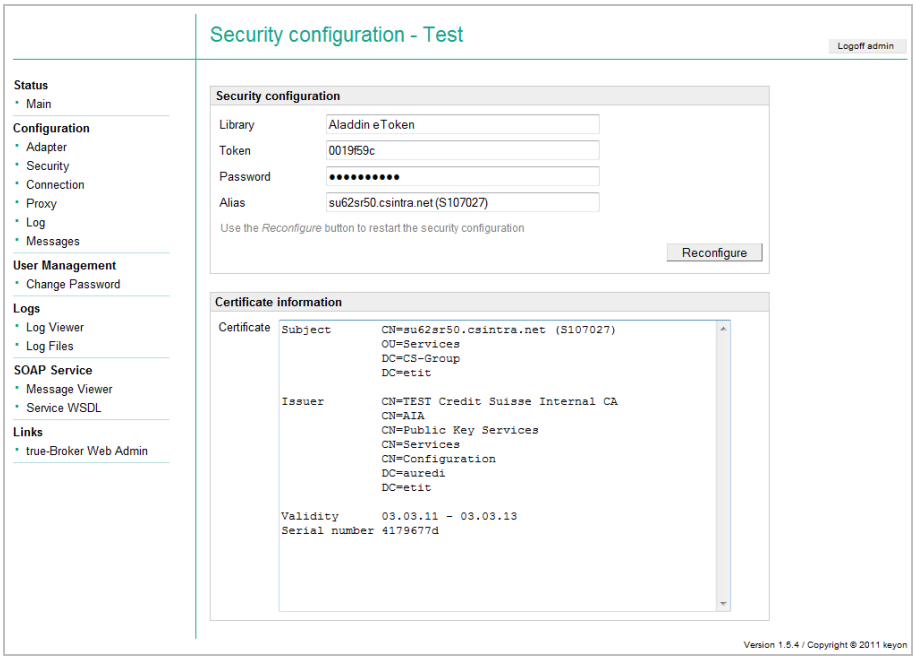
Press the Save button to save your changes.

The save process can take a while if a network directory has been configured. The save action checks whether the network directory is accessible using the defined configuration parameters.

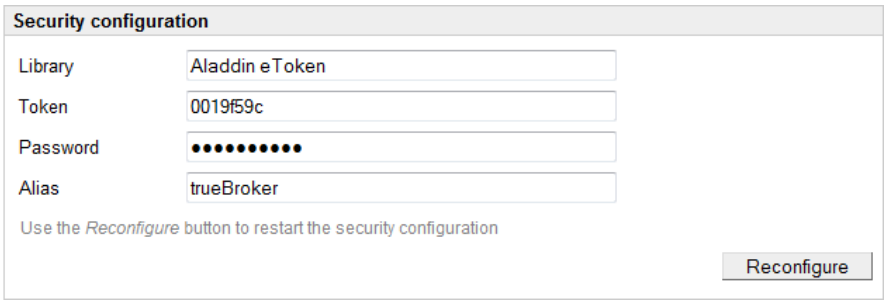
keyon

7.4 Security configuration page

Use the security configuration page to configure the credentials used for client authentication.



The security configuration page shows the current security configuration settings.



Select the ***Reconfigure*** button to restart the configuration process.

Please select the Library according to your security token.

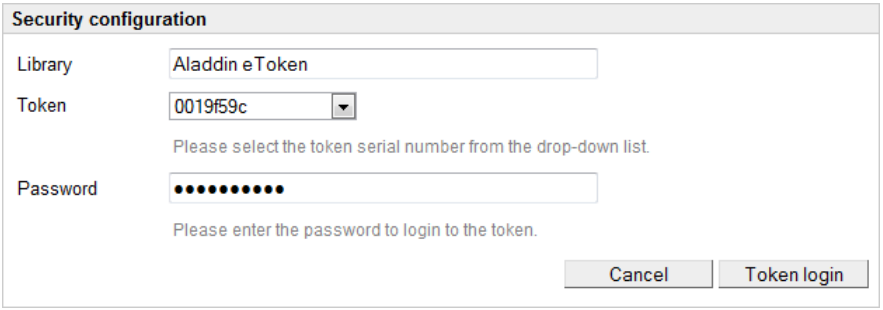


keyon

The following security tokens are currently supported:

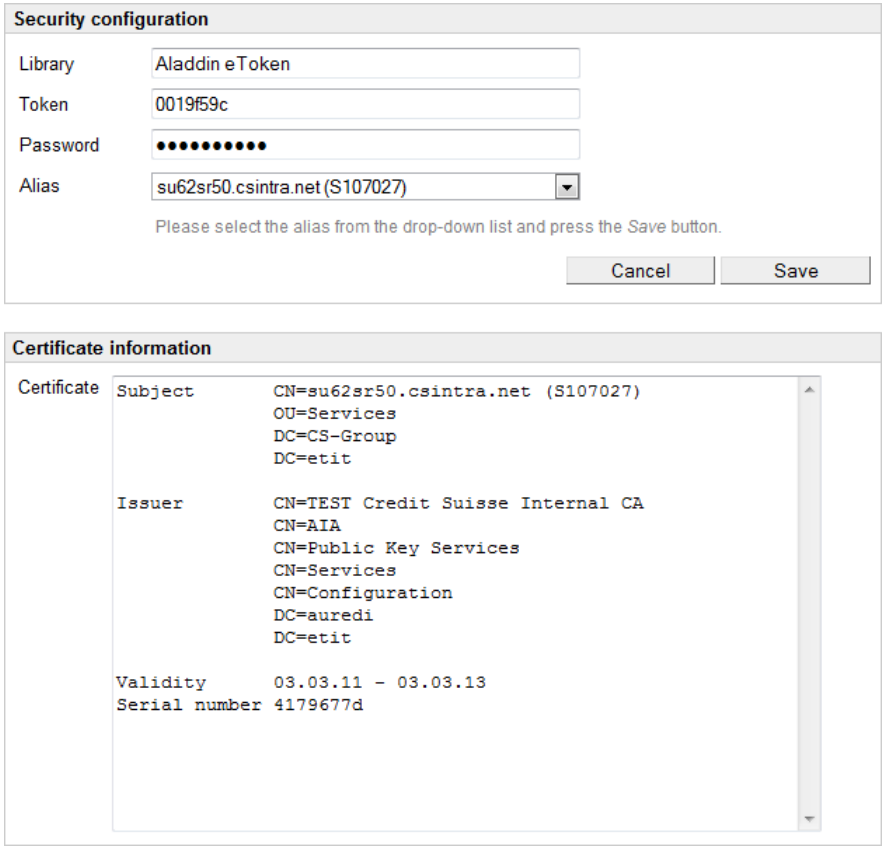
Library	Token
Aladdin eToken	
SafeNet iKey 4000	

Press the ***Load library*** button to load the selected library.



Select the serial number of your token, enter the token password and press the ***Token login*** button.

keyon

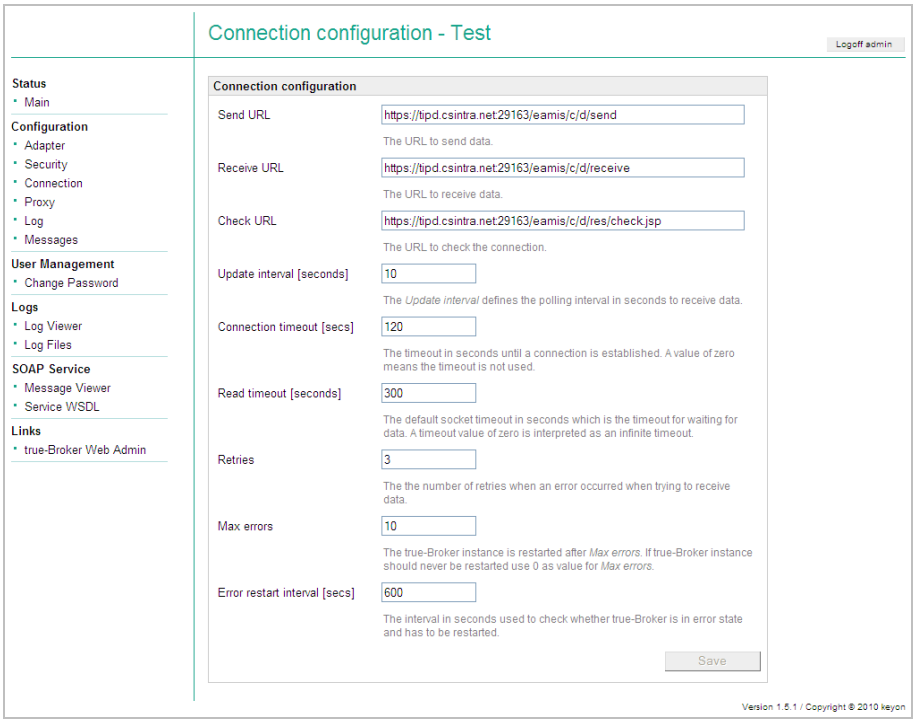


Select an alias and press the ***Save*** button to save to configuration.

keyon

7.5 Connection configuration page

Use the connection configuration page to change the connection settings.



The ***Send URL*** defines the URL where the inbound messages are sent to. The ***Receive URL*** defines where the outbound messages are downloaded from. The ***Check URL*** is used to check the connection.

Normally you do not have to change the ***Send, Receive*** or ***Check URL***.

The ***Update interval*** defines the polling interval in seconds to receive data.

The ***Connection timeout*** defines the timeout in seconds to wait until a connection has been established.

The ***Read timeout*** defines the timeout in seconds to wait for data.

Retries defines the number of retries when an error occurred when trying to receive data.

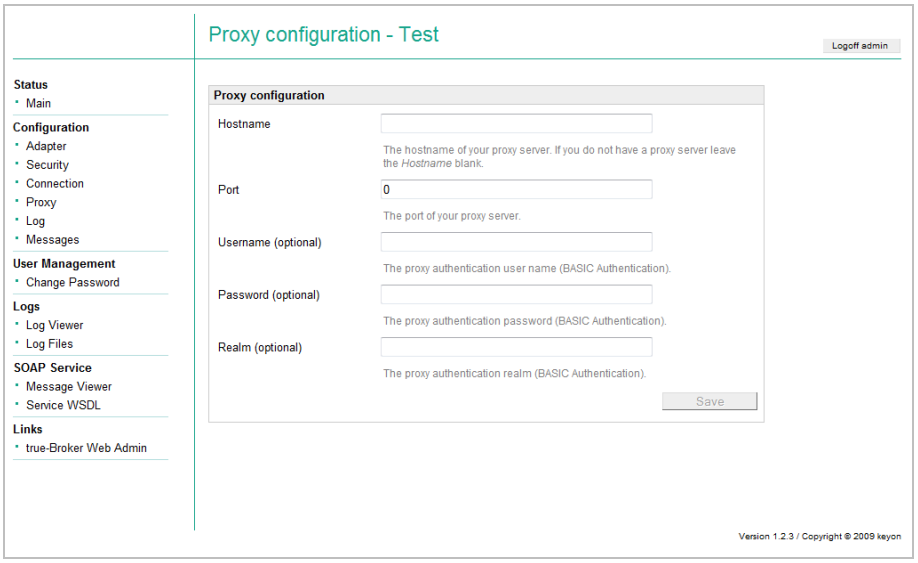
The true-Broker Web application is restarted after ***Max errors***. If the true-Broker Web application should never be restarted, use 0 as value for ***Max errors***.

The ***Error restart interval*** defines the interval in seconds used to check whether true-Broker is in error state and has to be restarted.

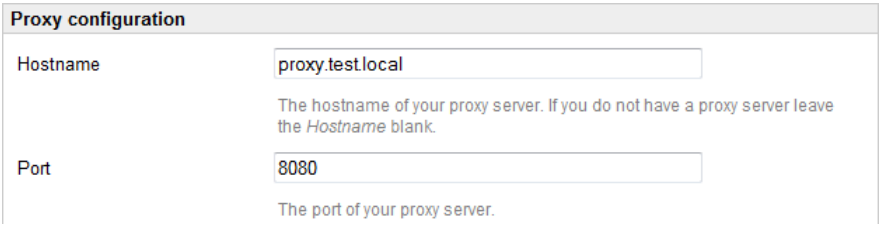
keyon

7.6 Proxy configuration page

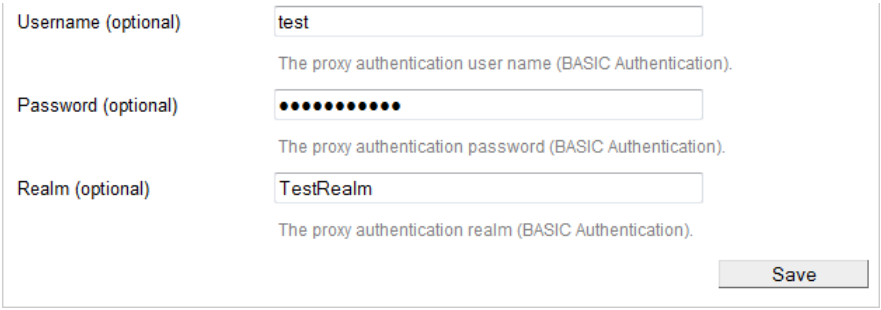
Use the proxy configuration page to change the proxy settings.



If you are behind a proxy to access the Internet please enter the hostname and port of your proxy server.



If your proxy server requires BASIC Authentication enter the username, password and realm.

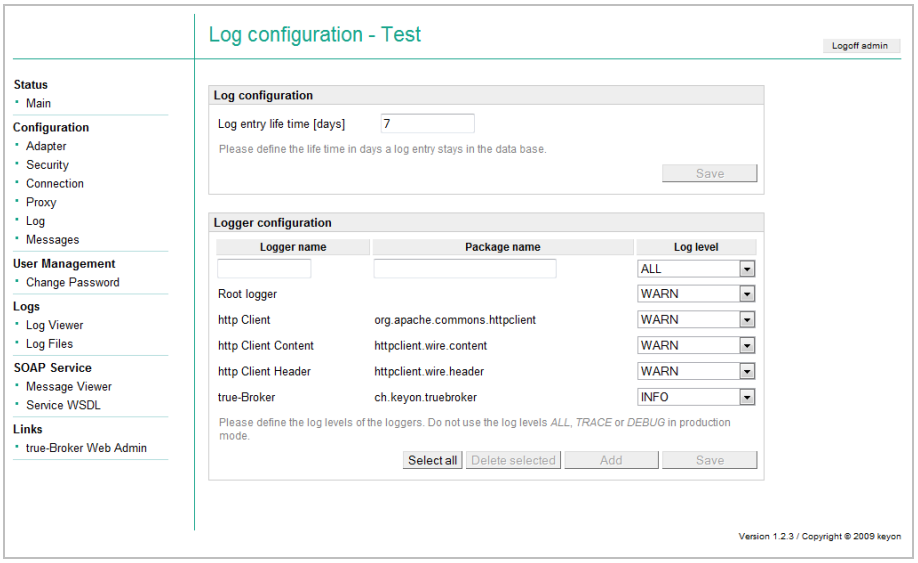


BASIC Authentication is supported for proxy authentication only.

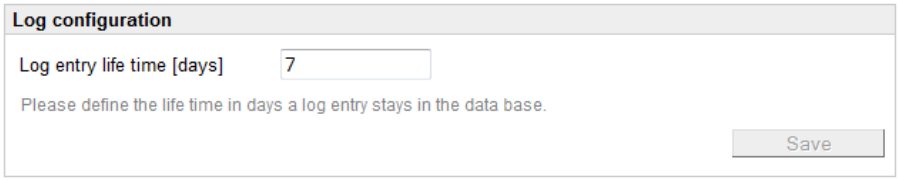
keyon

7.7 Log configuration page

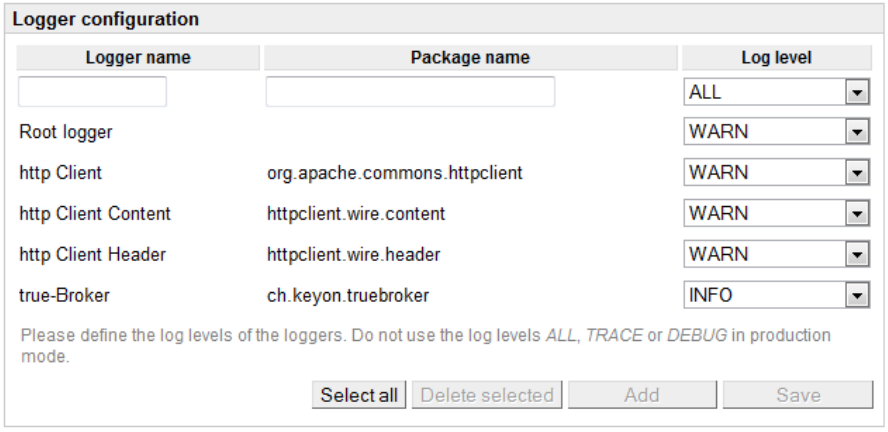
Use the log configuration page to change the log settings.



Log entries are written to log files and to the internal data base. The life time a log entry stays in the data base set the ***Log entry life time*** accordingly. The ***Log entry life time*** is defined in days.



You can change the log level of a logger. To do so please select the log level from the drop down list.

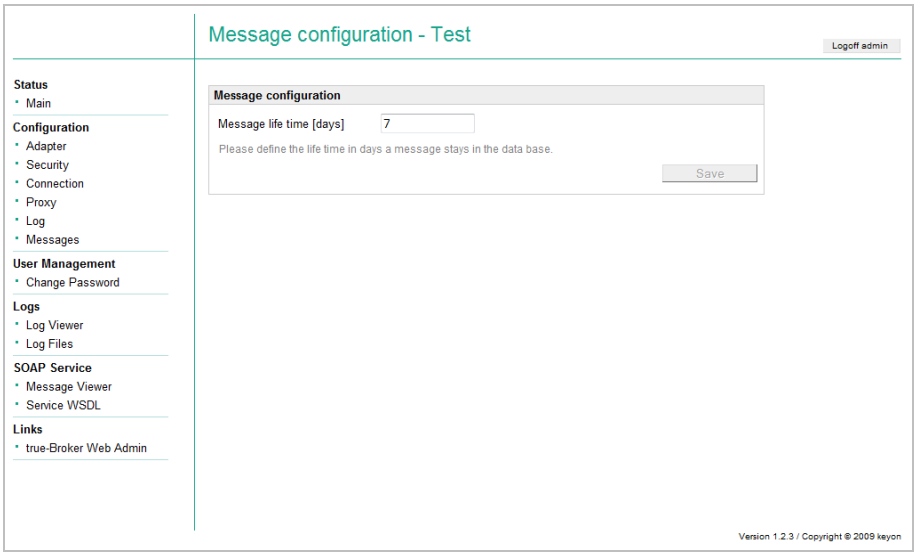


Do not use the log levels ALL, TRACE or DEBUG in production mode.

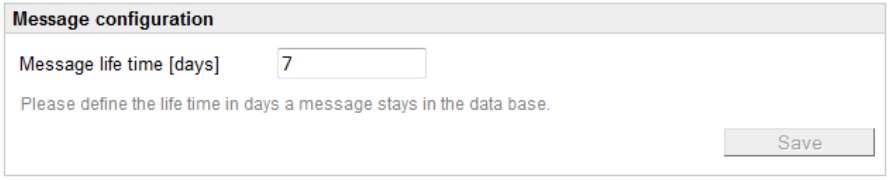
keyon

7.8 Messages configuration page

Use the messages configuration page to change the messages settings.



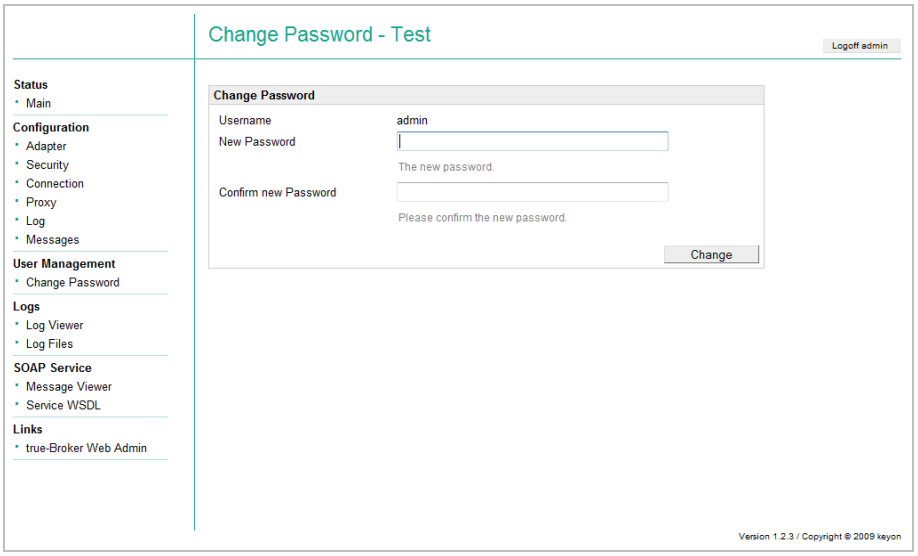
Messages sent or received through the SOAP service are additionally stored in the local data base. Use the ***Message life time*** to define the time a message entry stays in the data base. The ***Message life time*** is defined in days.



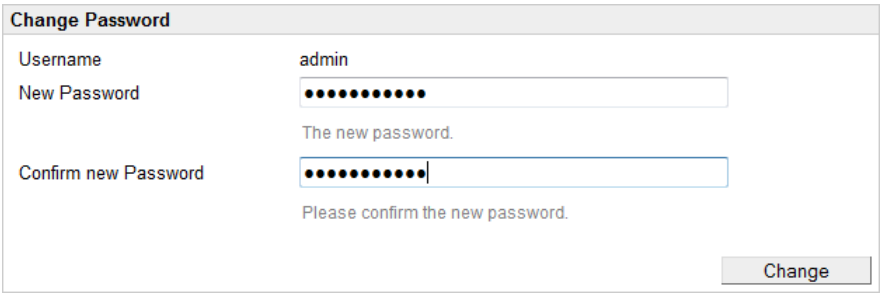
keyon

7.9 Change password page

Use the change password link to change your password.



Enter the new password and a confirmation of the new password.

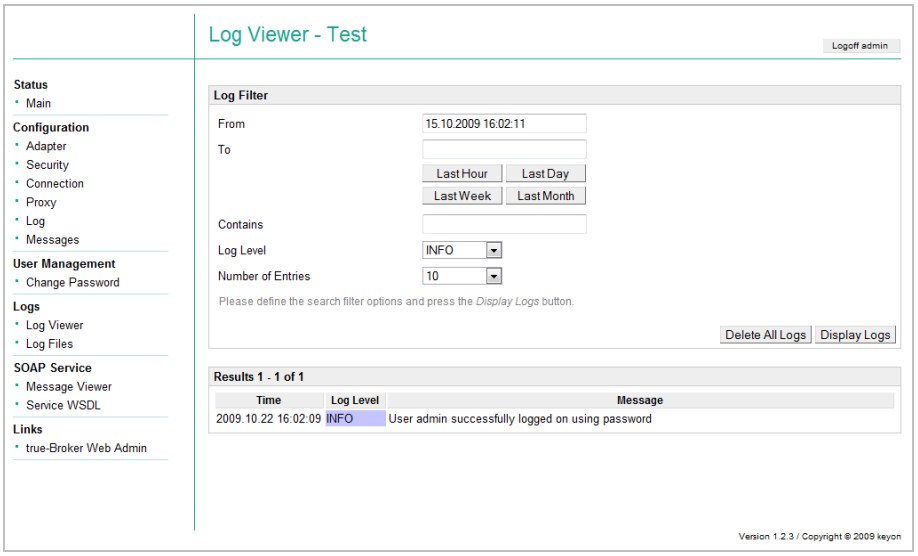


Press the ***Change*** button to change the password.

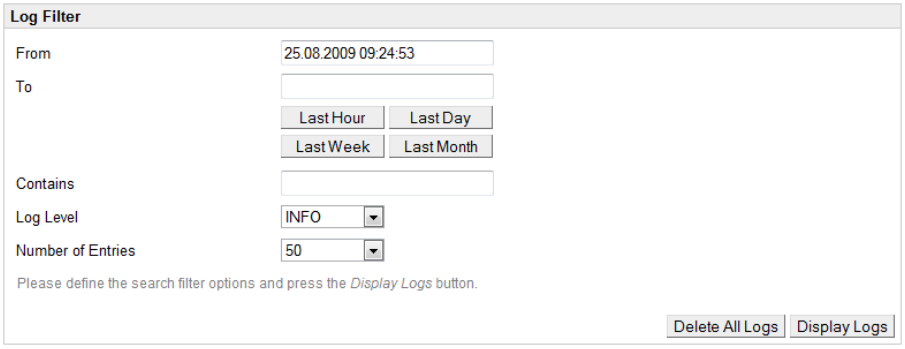
keyon

7.10 Log Viewer page

Use the Log Viewer page to browse the log entries.

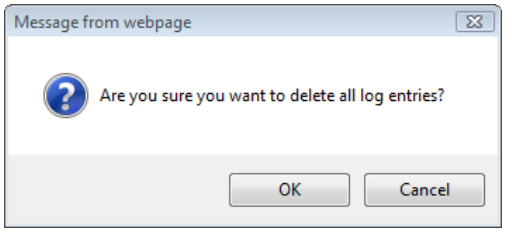


Log events are stored in the internal data base and log files. The Log Viewer can be used to search for specific log events in the internal data base. The life time a log entry stays in the internal data base is defined using the Log Configuration page.



Use the log filter to search specific log entries. Press the ***Display Logs*** button to start searching.

Use the ***Delete All Logs*** button to delete all log entries in the data base.



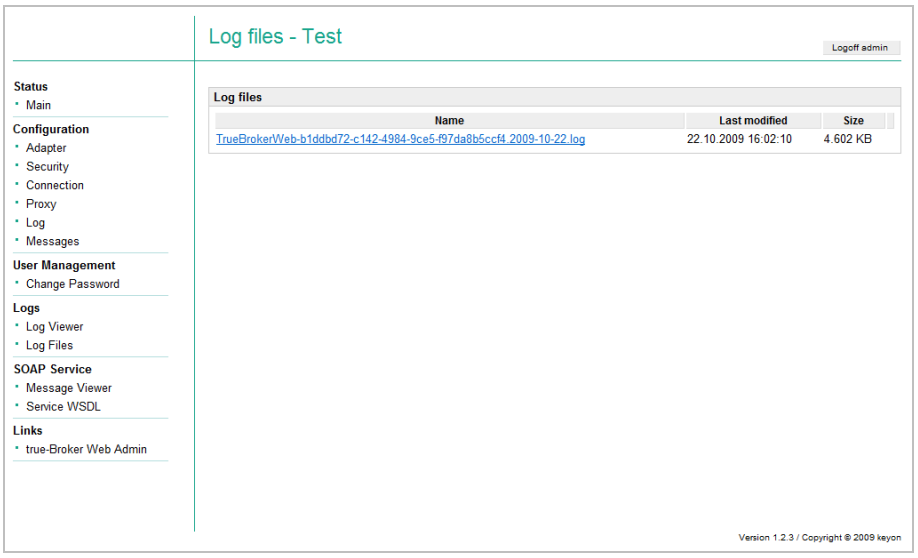
Press OK to confirm the delete action.

keyon

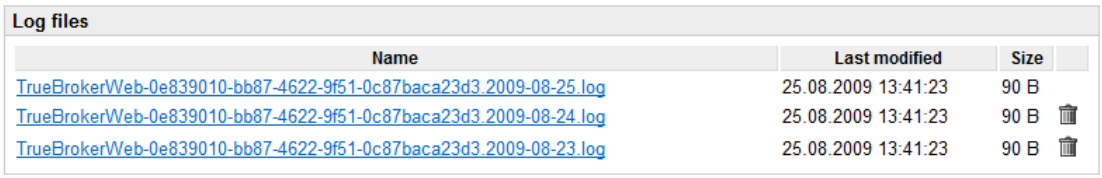
Only log entries of the current true-Broker Web client are deleted. Log entries in the log files are not deleted.

7.11 Log Files page

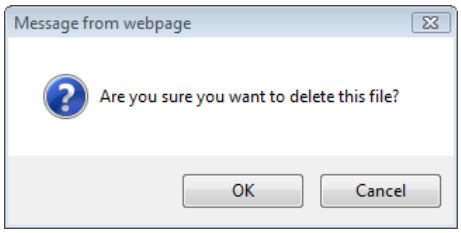
You can download or delete log files using the Log file page.



Select a log file link to download the log file.



Click the bin icon to delete a log file.



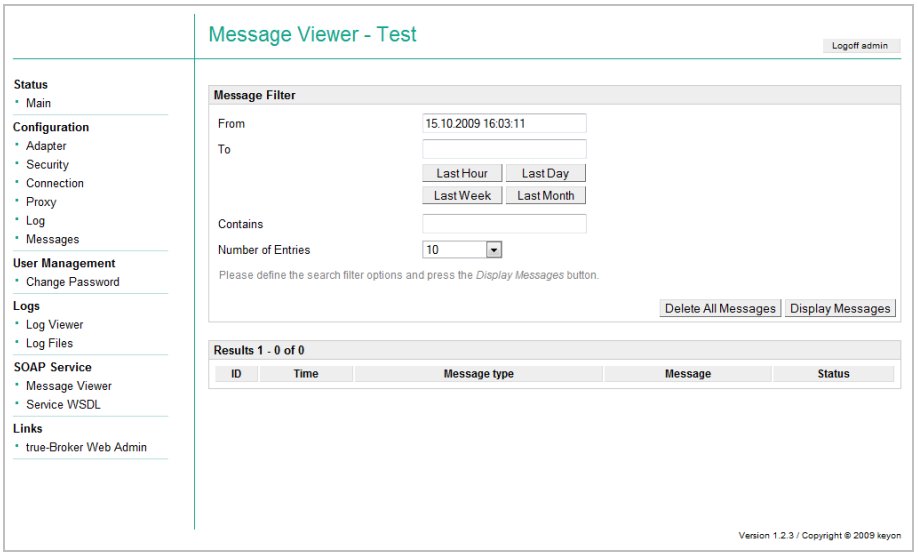
Confirm the action by pressing OK.

You cannot delete the current log file.

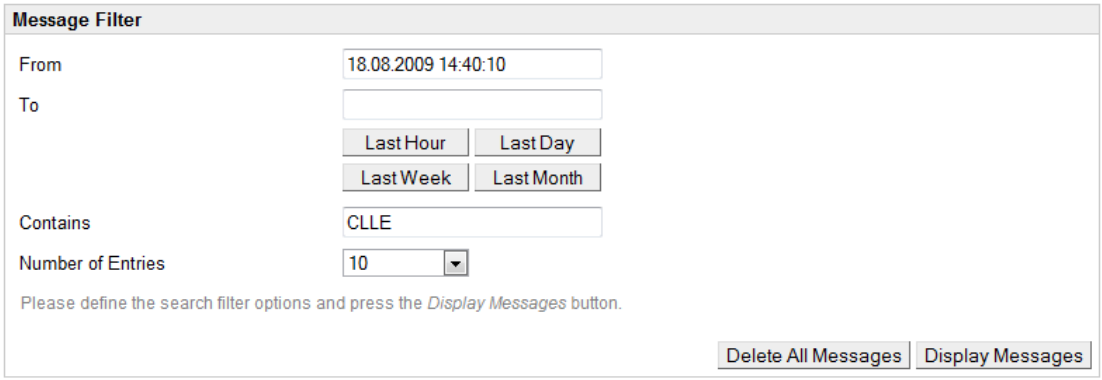
keyon

7.12 Message Viewer page

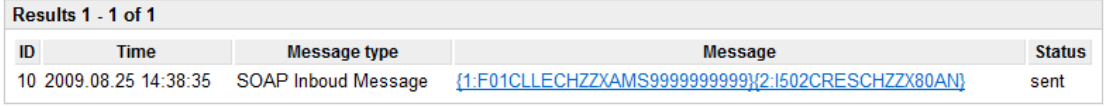
Messages that are sent and received through the SOAP service interface are additionally stored in the local data base. Use the Message Viewer page to download or delete the messages.



Use the message filter to search specific messages.



Use the message link to download the message.



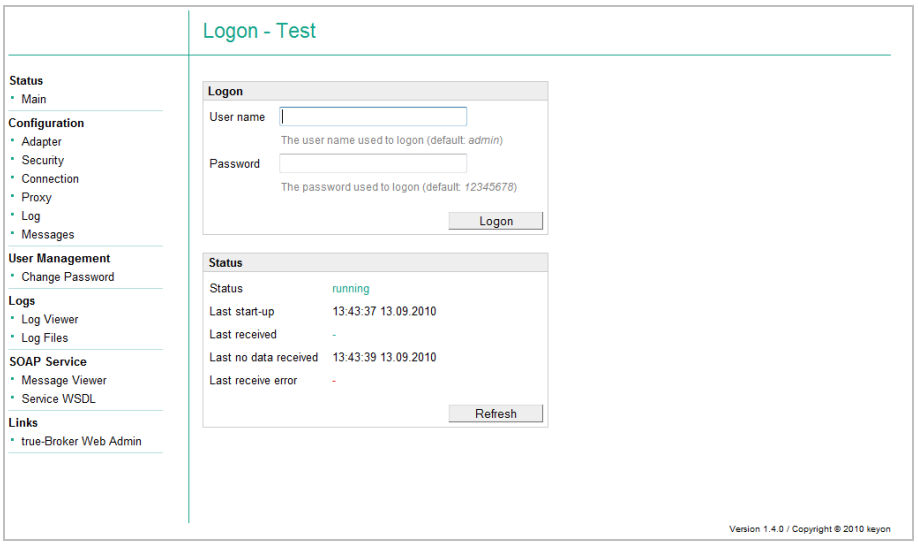
keyon

7.13 Logoff

To logoff from the true-Broker Web application select the ***Logoff*** button in the upper right corner.



Pressing the ***Logoff*** button redirects you to the ***Logon*** page.



7.14 Service WSDL page

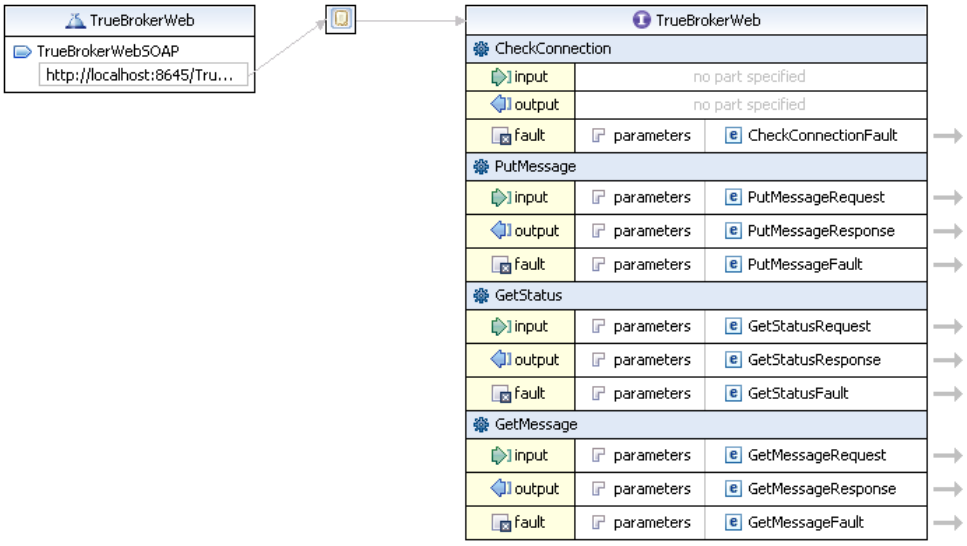
The Service WSDL page displays the WSDL of the true-Broker Web SOAP service. Use this link in your Web service client application.



keyon

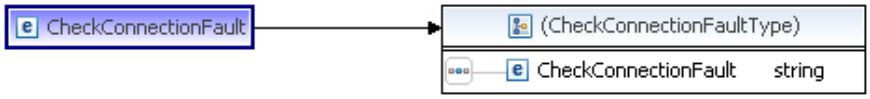
7.15 Service Definition

True-Broker Web offers a SOAP service with the following interface.



7.15.1 Operation CheckConnection

This function is used for an initial connection test. This function has to following parameters:

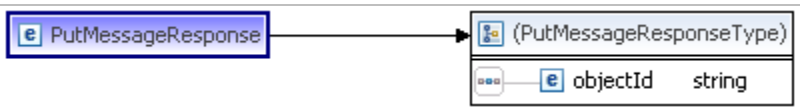
Fault		
CheckConnectionFault		
		
	Element	Description
	CheckConnectionFault	Contains reason message in case of connectivity error.

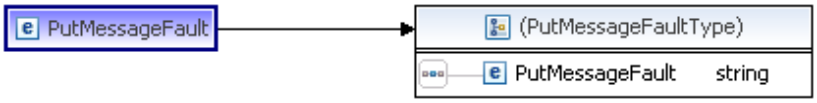
keyon

7.15.2 Operation PutMessage

This function is used to transfer message from the client system to the target system. This function has to following parameters:

Input Parameter	
PutMessageRequest	
	
Element	Description
message	The message to be sent.

Output Parameter	
PutMessageResponse	
	
Element	Description
objectId	Unique reference id for this message.

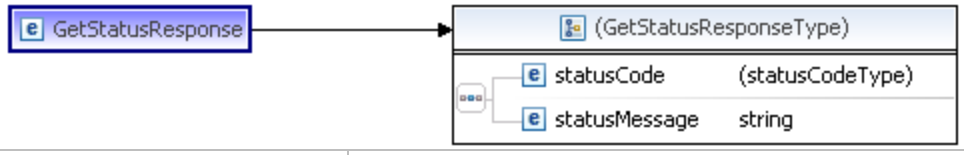
Fault	
PutMessageFault	
	
Element	Description
PutMessageFault	Contains reason message in case of a transfer error.

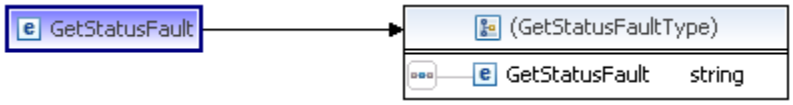
keyon

7.15.3 Operation GetStatus

This function is used to request the current processing status from the target system. This function has to following parameters:

Input Parameter	
GetStatusRequest	
	
Element	Description
objectId	Unique reference id of related message.

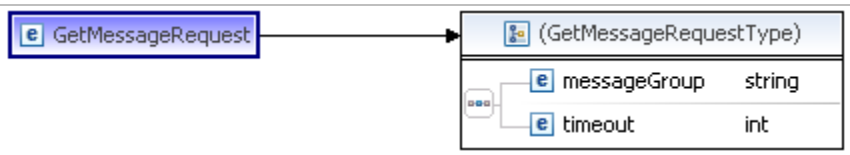
Output Parameter	
GetStatusResponse	
	
Element	Description
statusCode	Conaints status code for actual processing step. • Ok = 200 • Failed = 500
statusMessage	Contains status text for actual processing step.

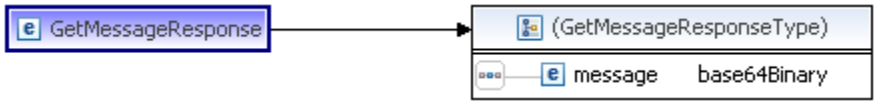
Fault	
GetStatusFault	
	
Element	Description
GetStatusFault	Contains reason message in case of a transfer error.

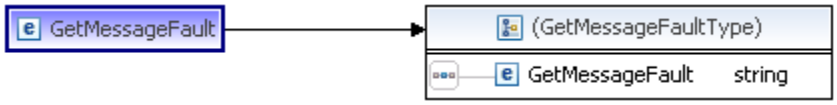
keyon

7.15.4 Operation GetMessage

This function is used to request a message from the target system. This function has to following parameters:

Input Parameter		
GetMessageRequest		
		
	Element	Description
	messageGroup	Message group of the messages to receive.
	timeout	Maximum time interval (in seconds) the function will wait for a receiving message.

Output Parameter		
GetMessageResponse		
		
	Element	Description
	message	Contains the response message. If no message is available this string is empty..

Fault		
GetMessageFault		
		
	Element	Description
	GetMessageFault	Contains reason message in case of a transfer error.