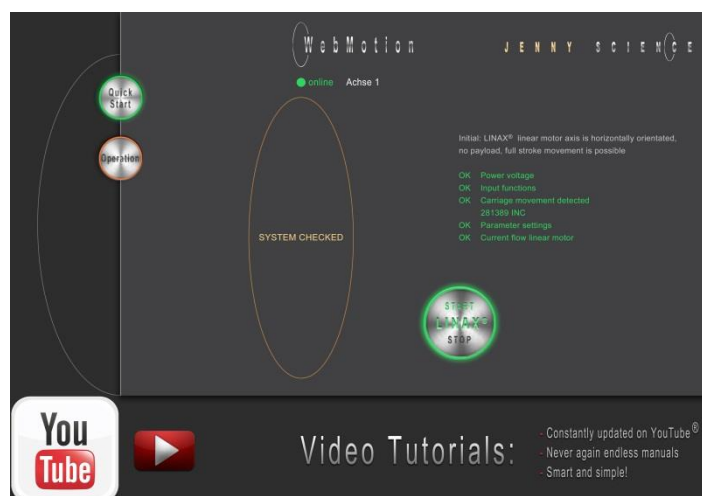


WebMotion® Browser Java XENAX® Xvi75V8



Dokumentversion V1.5
February 2019

Our XENAX® Servocontroller are configurable over web browser. For the models Xvi75V8 and Xv50V6 the Java® Plug-in is necessary to connect to WebMotion®. The Java plug-in is increasingly considered to be a security risk and causes problems in different web browser.

In this document we show solutions how to operate Webmotion® with web browser and Java® reliably.

In order to overcome these Java connection issues once and for all, the newest XENAX® Xvi48V8 servo controller and future models are based on HTML 5 without the use of Java Plug-in.

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1 Initial situation

1.1 Browsers without support of Java Plug-in

The era of the Java plugin on the Web is coming to an end, because many browser vendors have either removed or announced timelines for the removal of Java plugin support. Oracle, the Java owner, plans to remove this technology in a future release.

Web browser overview of the support for Java plugin on the Windows operating system:

Browser	Version	Java	Remark
Internet Explorer	11.0	YES	also available on Windows 10
Mozilla Firefox	51	NO	Announced for January 2017
Google Chrome	52.0	NO	since January 2016
Opera	38.0	NO	since May 2016
Safari	5.1.7	NO	no updates available (May 2012)
Microsoft Edge	25	NO	only on Windows 10

Because the Internet Explorer (IE) uses the ActiveX technology, there is not an important reason in sight to stop the support of Java plugin. This also allows the use of the extension IE_Tab to connect WebMotion® in browsers without support of the Java plugin.

1.2 Ensure the functionality of WebMotion®

The proper function of WebMotion® with the XENAX® Xvi75V8 and Xv50V6 servo controllers is ensured with the following possibilities:

A) Portable Browser QupZilla including free-certificate Java 7 Update 45. The package can be downloaded from www.jennyscience.ch/en in the products->download section. Administrator rights are required for installation on your local PC/Laptop.

B) Portable Browser QupZilla with the use of the already installed Java Plug-In on your PC/Laptop. No administrator rights are required for this solution.

C) Internet Explorer Browser and installed Java Plug-in (most current version). The installed WebMotion® version has to contain a valid java certificate.

D) Other Browser in combination with the IE_Tab (Internet Explorer Tab) extension and the use of the installed Java Plug-In (current version). The installed WebMotion® version has to contain a valid java certificate.

2 Portable Browser with free-certificate Java

2.1 Requirements

The operating system Windows (XP, Vista, 7, 8 & 10), the portable browser QupZilla and the free-certificate Java 7 Update 45 ensure the connection to WebMotion®, no matter which version is installed on the servo controller.

The Java environment is loaded when WebMotion® is starting. Ideally, no Java versions are installed on the PC/laptop to avoid problems due to Java configuration overlapping. Please refer to notes in [How do I uninstall Java on my Windows computer?](#) to uninstall Java.

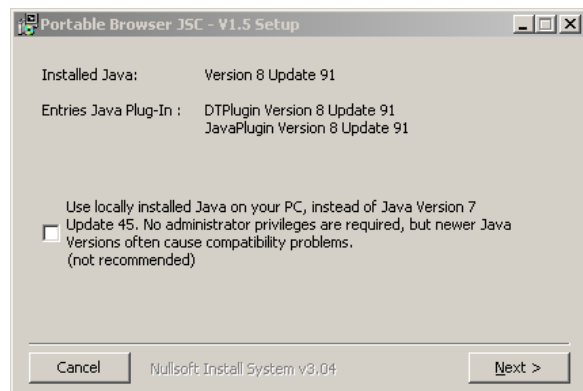
2.2 Copy Portable Browser JSC

Start *Portable Browser JSC V.exe*

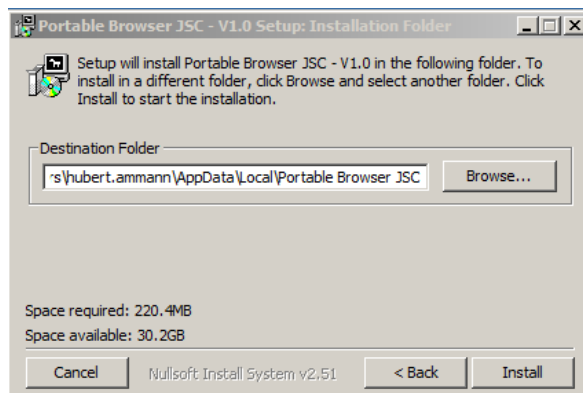
After the start of the setup file you see detailed information about the current settings. The certification free Java Version 7 Update 45 can only be activated with administration rights. If this is not possible, the installed Java-Version can be used.

See Chapter „Portable Browser with Java on PC“.

	Used versions:
QupZilla-Portable	Version 1.8.9
JPortable (Java)	Version 7 Update 45



The download copies all files in the defined folder and saves a link to start the browser on the desktop.



Execute Browser QupZilla-Portable

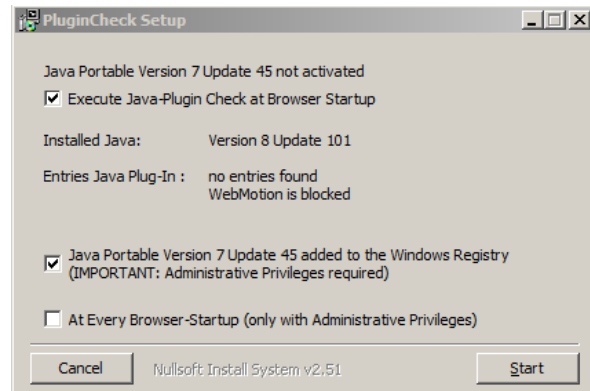


2.3 Verify the Java activation

At every QupZilla startup the progress of java activation is verified. The PluginCheck window appears if the installed Java version or no Java is saved in order to activate the Java portable (only with administrative privileges).

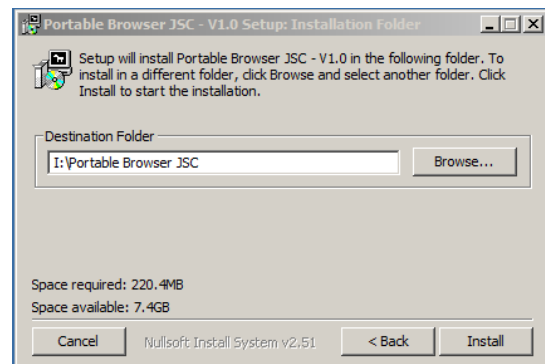
This process can be automated:

- At every Browser-Startup
- or to disable the activation check:
- Execute Java-Plugin Check

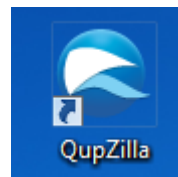


2.4 Portable Browser on a USB stick

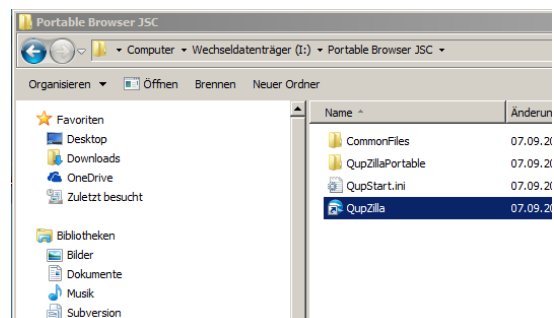
If you don't want to save the Java files on your computer harddisk for security reasons, you can copy the files to a folder on a USB stick. The browser and the Java PlugIn are loaded directly from the USB drive if there is a connection to Webmotion®. After disconnecting the USB stick no execution of java based critical software is possible on your computer.



Start Web-Browser QupZilla-Portable with Desktop Link
Only possible as long as USB stick is connected.



With this USB Stick you can quickly start WebMotion® on another PC/Laptop. To do this click the link QupZilla. Changes to the path settings in the link properties are possible.



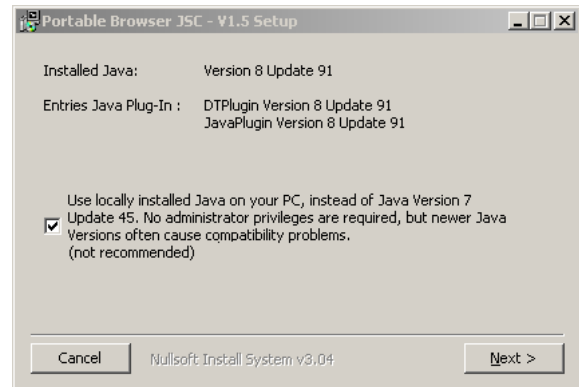
3 Portable Browser with Java on PC

Install setup file as described above.

Activate the local Java installation
Version 7 Update 45.

With this choice no administrative privileges are required because no entries are made in the Windows Registry.

When starting QupZilla the Java Plug-in from the PC/Laptop is now used.



4 Internet Explorer with Java on PC

4.1 Java Plug-in and WebMotion actual version

It is recommended that you install the latest java update. Likewise, the installed WebMotion® on the servo controller must be updated periodically with the Device Installer because the Java certificate expires.

Overview of the most important versions with certificates and their validity:

WebMotion Version	Release Date	Certificate Type	Expiration Date	Standing August 2016
V5.70	06.07.2016	thawte SHA256	June 2018	certificate valid
V5.68	15.12.2015	thawte SHA256	Nov. 2016	certificate valid
V5.64	17.11.2014	thawte SHA1	Nov. 2016	certificate valid
V5.60	21.03.2014	thawte SHA1	Nov. 2014	certificate expired
V5.00	21.09.2012	SHA1	Feb. 2012	certificate expired
V4.40	28.09.2011	SHA1	April 2010	certificate expired

The most current WebMotion® Version V5.70 has a certificate that is valid until June 2018. Before the end we will provide you the next WebMotion® versions with a new certificate.

5 Other Browsers with Java on PC

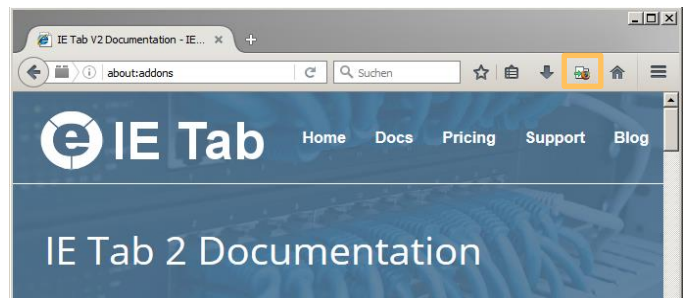
In Browsers which do no longer support the Java plugin, the Internet Explorer can be emulated with the extension IE_Tab (Internet Explorer Tab). That is how Java will be available again. Preconditions are that Internet Explorer is available on the windows operating system and that Java is installed. Below are examples of popular browsers.

5.1 Installation in Mozilla Firefox

Take all inputs shown and restart the browser.

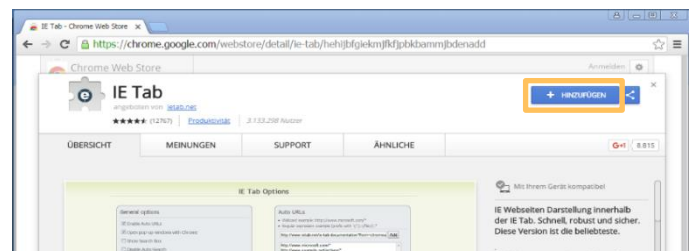


Each click on the icon changes to the Internet Explorer mode and back.



5.2 Installation in Google Chrome

Open in Chrome
<https://chrome.google.com/webstore/detail/ie-tab/hehijbfgiekmjfkfjpbkbammjbdenadd>
 and add the extension.



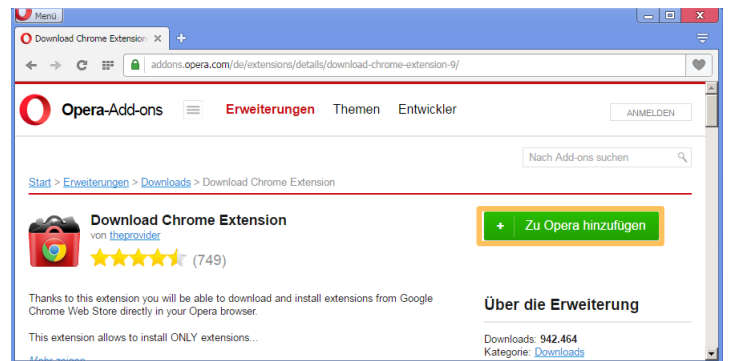
One click on the icon changes to the Internet Explorer mode.



5.3 Installation in Opera

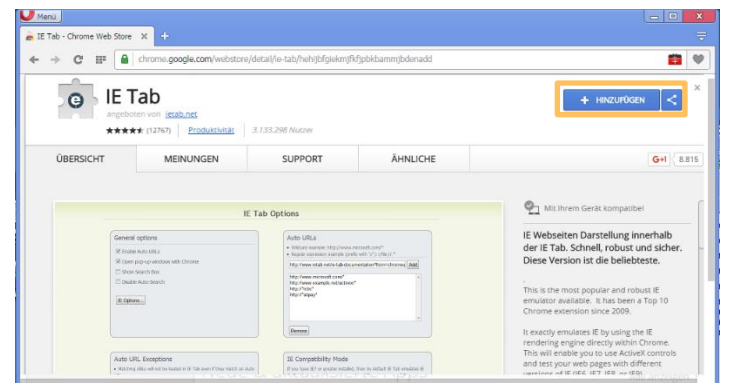
Open in Opera

<http://addons.opera.com/de/extensions/details/download-chrome-extension-9/>
and add the extension.

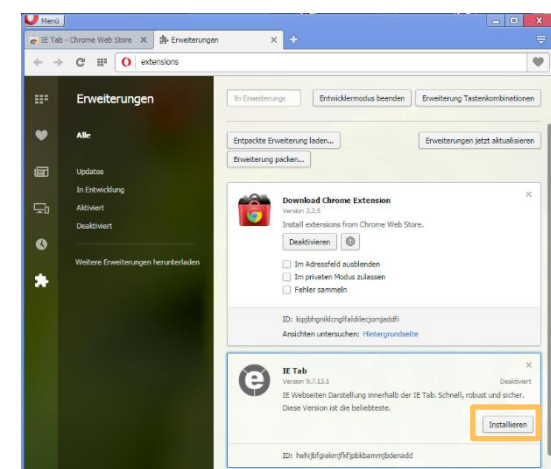
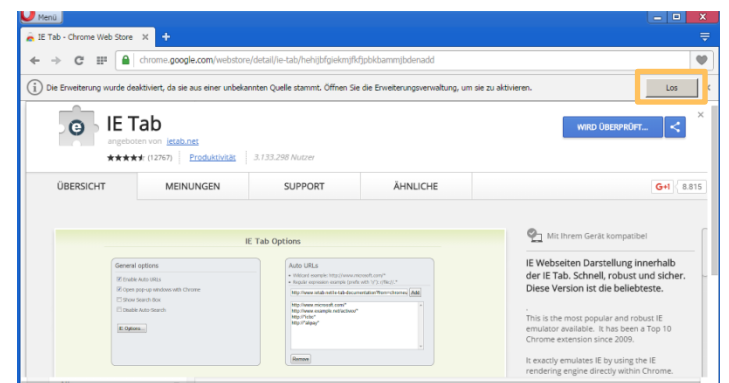


Open in Opera

<https://chrome.google.com/webstore/detail/ie-tab/hehijfbgikmifkfjpbkbammjbdnadd>
and add the extension.



In addition, activate the extension and start the installation.



6 WebMotion® Start-up Problems due to Java Settings

6.1 After completed Java Update

After updating Java to the most current version, the start-up of WebMotion® may be blocked. This problem has been noticed for the first time with Java Version 7 Update 65.

You can check the Version from the Java-plugin under
Control / Java -> Java Control Panel / General / Info



Cause:

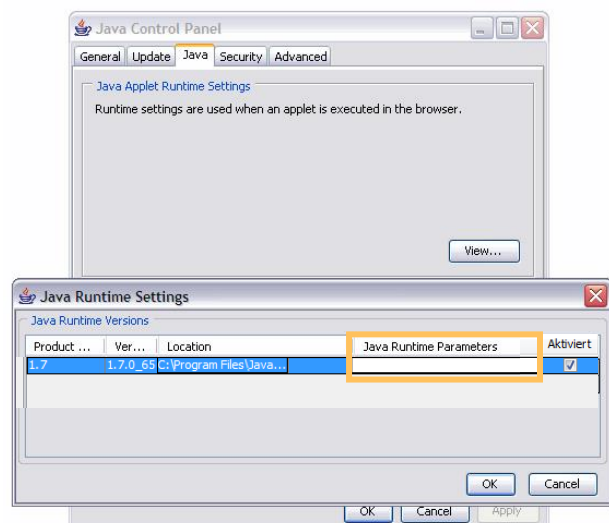
In the Java File
c:\users\%USER%\AppData\LocalLow\Sun\Java\Deployment\deployment.properties
the following entry is missing:
deployment.javaws.jre.0.args=

Solution 1:

Enter „*deployment.javaws.jre.0.args=*“ directly in the file with a text editor

Solution 2:

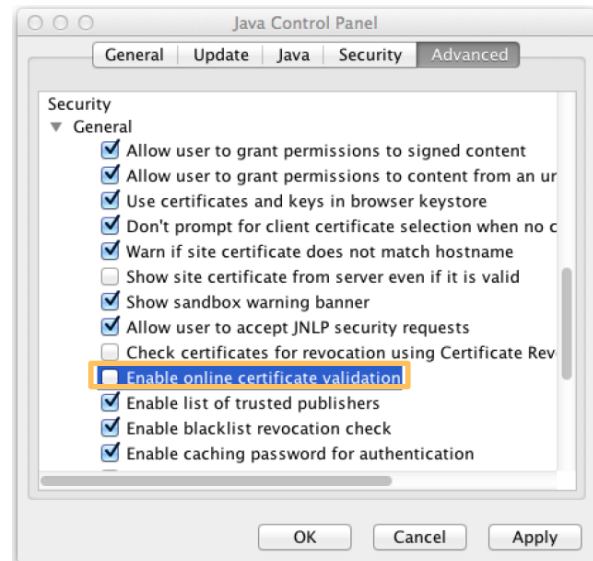
- Open the Java Control Panel, select tab “Java”, and press “View”, Window Java Runtime Settings page opens.
- Double-click in the field “Java Runtime Parameters”, field changes to edit mode with a blinking cursor. **Leave field blank**
- Close the Java Runtime Settings with OK, close the Java Control Panel with OK.
- The entry *deployment.javaws.jre.0.args=* was automatically added in the File
c:\users\%USER%\AppData\LocalLow\Sun\Java\Deployment\deployment.properties
 - Restart Browser
 - Start WebMotion



6.2 Time-Out Due to Very Slow Start-up

If the XENAX® servo controller is connected to a PC without internet access, the Java certificate cannot be validated. This can possibly slow down loading the WebMotion® user interface or can even lead to a time-out.

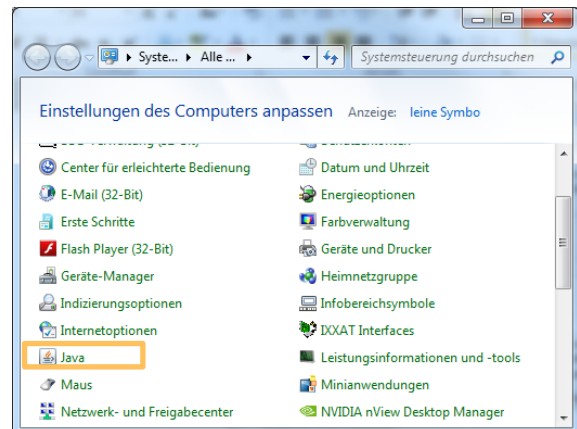
The automatic certificate validation has to be deactivated:
Open Java control panel. Under “Advanced” deactivate certificate validation.



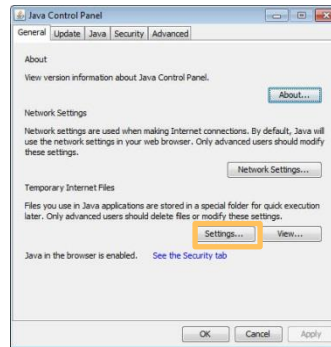
6.3 Start-up WebMotion® not possible

It is possible that archived Java data, prevent the start up of WebMotion®.

Java archiving has to be deactivated:
Control Panel / Java

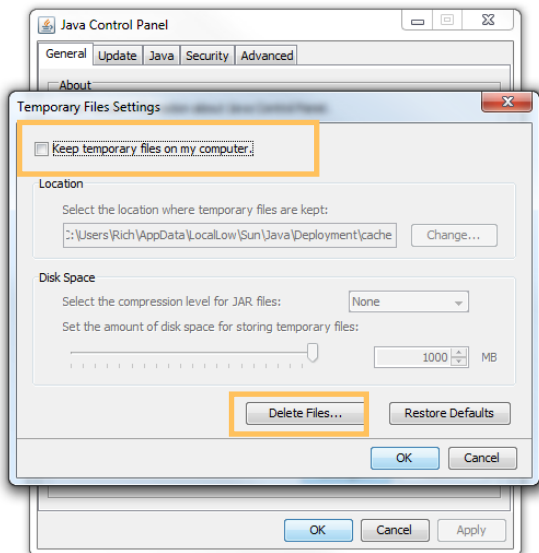


General / Temporary Internet Files / Settings ...

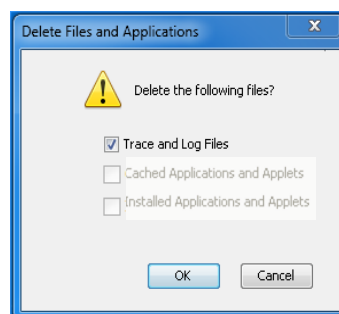


"Keep temporary files on the computer." must be **unchecked!**

Press "Delete Files"



„OK“



Close all windows with ok.

6.4 Hide Java confirmation window

When starting WebMotion®, Java asks automatically for confirmation of the application.

It can be deactivated for all following

WebMotion® start-ups

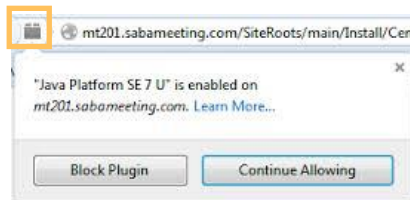
Check "Do not show this again for apps from the publisher and location above"

Press „Run“



Klick on symbol on the left of the IP and select "Continue Allowing"

If the confirmation window keeps showing, please close and re-open the web browser.



6.5 Code certificate out of date or not existing

The Code Certificate of WebMotion® is time limited. Thereafter start-up will be prevented.

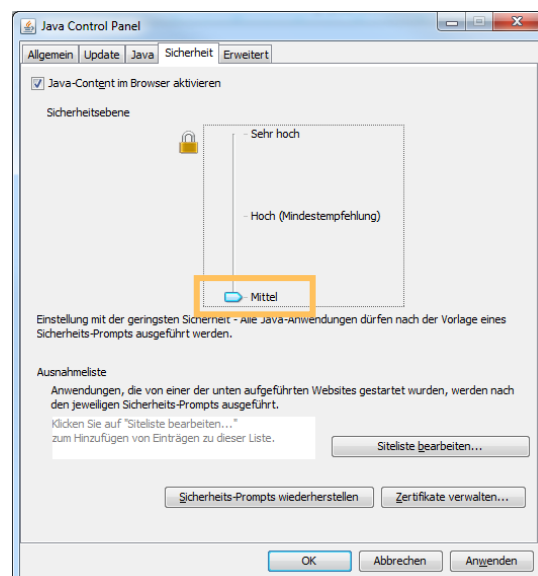
Start JAVA Control panel:

Windows Control Panel / Java / Security

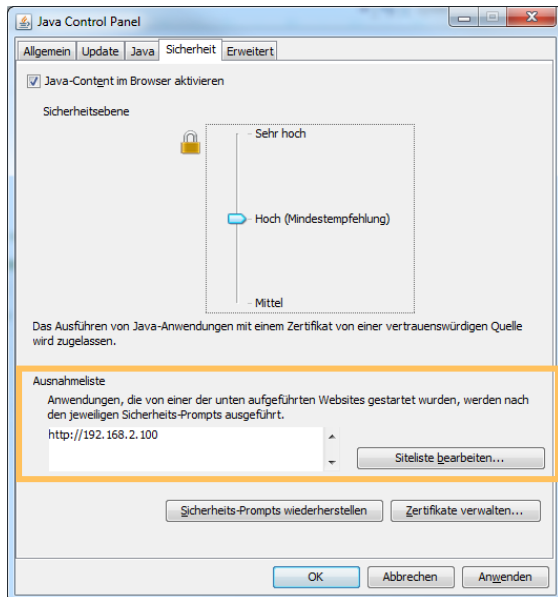


There are three solution steps available:

- 1) Set Security Level of Java to the middle



2) Add XENAX® to exception list



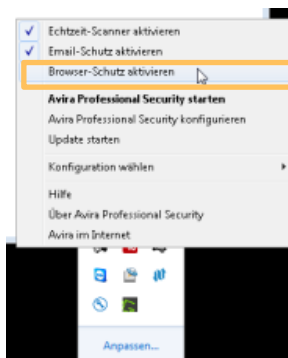
3) XENAX Firmware Update

Install an updated version of XENAX® Firmware
and WebMotion® from the Website
www.jennyscience.ch

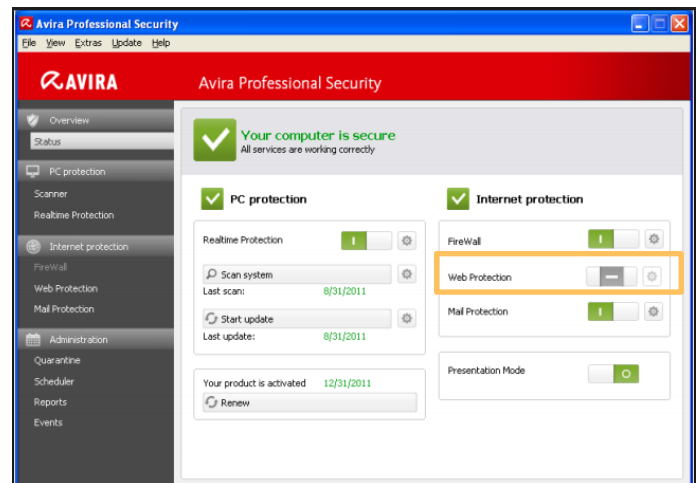
6.6 Antivirus block the WebMotion® by “Web Protection active”

By the “Avira Professional Security” possibly with
other Avira products, it can lock through the
active browser protection the WebMotion.

Please check the settings in the task menu -> info
area -> klick on antivirus program -> make sure
the browser protection is not active.



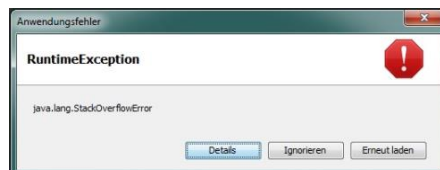
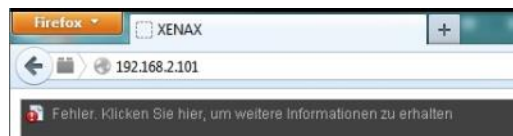
Please check that the Web Protection is inactive in the Avira program.



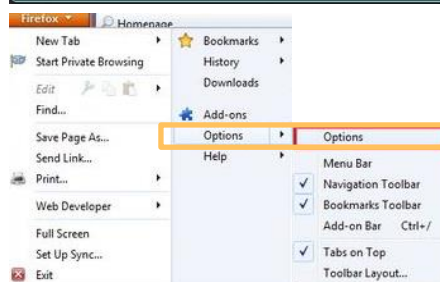
7 Browser specific start-up problems

7.1 Firefox Application Error

The cause for the displayed error “Runtime Exception” lies in Firefox’s cache and can be solved as follows:

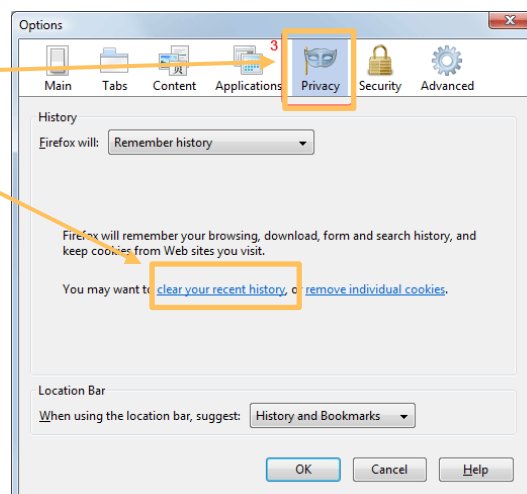


Firefox / Options / Options



Open register „Privacy“

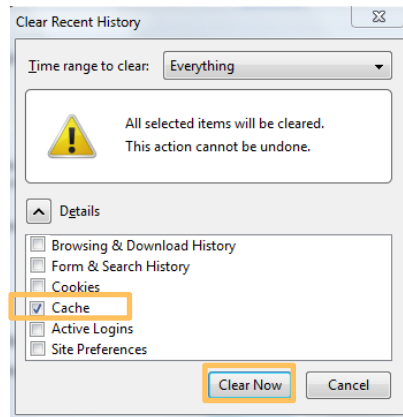
Press „clean your recent history“



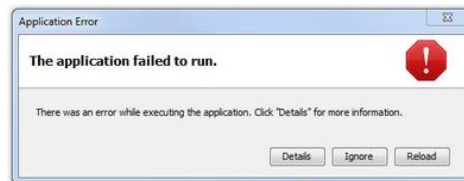
Check „Cache“

Select „Clear Now“

Close the Firefox browser

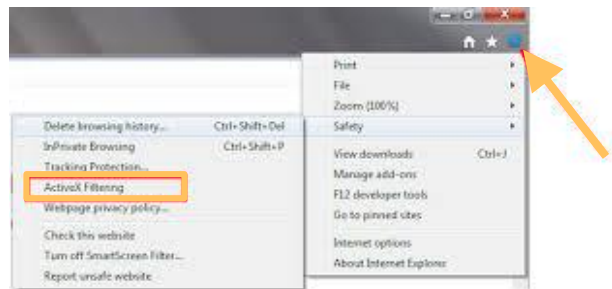


7.2 InternetExplorer 11 Application Error



The active filtering of InternetExplorer may block the Java applet

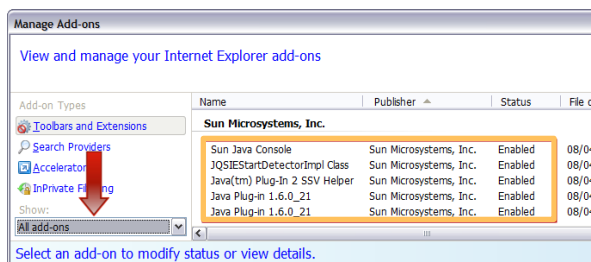
Under Tool (⚙️)/ Safety/ ActiveX Filtering must be **unchecked**.



Furthermore, the add-ons of Java have to be checked, Under Tool (⚙️)/ Manage add-one.

All Java Add-Ons must "Enabled" in the status registry.

If the Sun Java Console is installed on the PC is, it has to be enabled as well.



If the Add-Ons cannot be enabled it is advisable to uninstall and re-install Java applet.

Close browser and restart it.

8 Useful websites

[Java Plug-in Technology](#)

[Java Verification Page](#)

[How can I configure the Exception Site List?](#)

[How do I uninstall Java on my Windows
computer?](#)

[How to enable Java in all the major web
browsers?](#)

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