PLC Automation
Technical information
AC500 – Update from Java Applet for Web Visualization

Oracle has introduced new security rules to improve the safety of communication which need to update a Java Applet when using Web Visualization.

**Concerned users:
AC500 applications using Webvisu and computer or laptops with Java Environment version 8 or higher and any browser (e.g. Firefox, Internet Explorer,…)**

22.02.2016

We want to inform you about a change in new version of Java Environment from Oracle which could lead to troubles on applications using Web Visualization.

The "Java Runtime Environment" is required if you want to run software programmed in Java, such as the AC500 web visualization.

Since the update to Java version 8, the security rules provide that Java Applets will only work when they are digitally signed. The Java Applet that uses the actual AC500 web visualization is signed with a certificate that expires on **February 23rd 2016**.

Depending on your browser and whether your computer is connected to the Internet, the Applet will be blocked after that date.

Affected devices

- Computer and laptops with Java version 8 or higher and any browser (like Firefox, Internet Explorer, …)
- Application using Web Visualization from Automation Builder software up to V1.2.0

Not affected devices

- CP600-WEB HMI panels
- Smart phones and tablets with MicroBrowser (Android & iPhone/iPad App)

The following devices will not be affected

The new Java applet files will be included in any Automation Builder from Version V1.2.0.

Solutions provided

There are two approaches that differ in whether a project download in the PLC is possible or not.

If the PLC cannot be stopped in any case, the second approach can be used. However the first approach is recommended.

Replace Java applets with full download

This recommended approach involves replacing the Java applets with a newer, signed and timestamped version and re-download the project to the controller. This will stop the PLC program.

Replace Java applets on running PLC

The second approach involves replacing the Java applets with a newer, signed and timestamped version and transfer new versions of minml.jar and webvisu.jar to a running PLC.

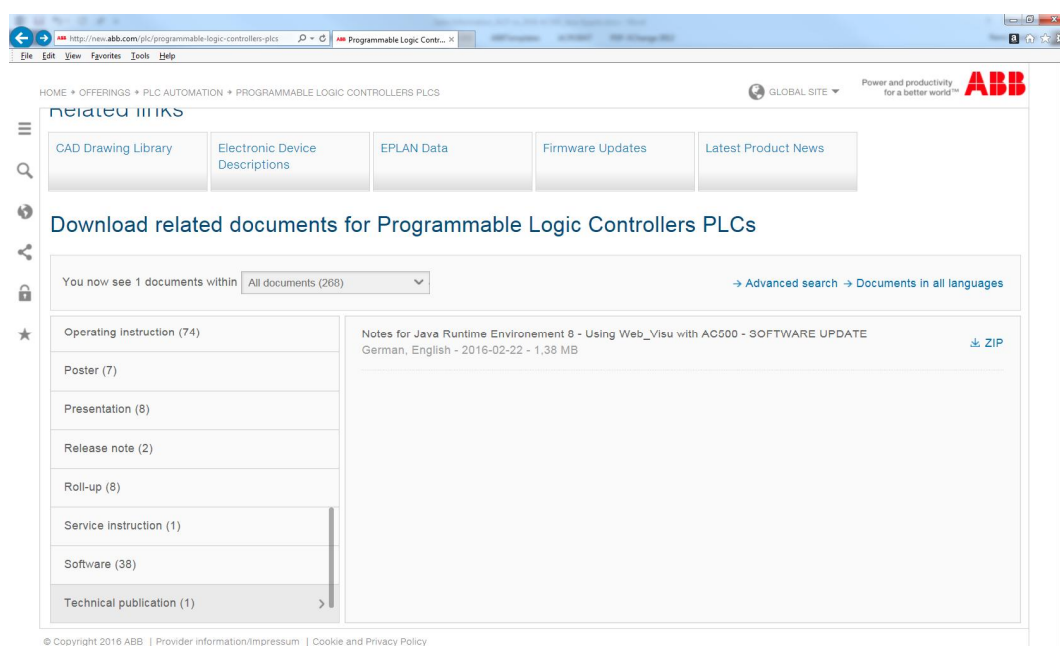This can be done using Automation Builder and PLC browser commands or also using FTP server.

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How to proceed to make the necessary update when needed?

In order to help our customers and with the aim to support you solving that problem, the PLC Support together with our R&D have prepared a procedure to update the needed files on the affected application. This procedure documented with an information leaflet and the needed files and batch file for update is available on ABB website www.abb.com/plc.

The Update Procedure can be downloaded using the following link:

http://search.abb.com/library/Download.aspx?DocumentID=9AKK106713A3655&LanguageCode=de&LanguageCode=en&DocumentPartId=&Action=Launch

Contact details

ABB Automation Products GmbH

Wallstadter Str. 59
68526 Ladenburg, Germany
Phone: +49 (0) 6221 701-1444
Fax: +49 (0) 6221 701-1382
www.abb.com/plc
www.abb.com/automationbuilder
www.abb.com/drives

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