

Update the Java applet for AC500 webvisu

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1 Introduction

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 provides the 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.

The following processes describes how to get the Web visualization running again.

2 Devices Affected

2.1.1 The following devices are affected:

- Computer and Laptops with Java version 8 or higher and any browser (like Firefox, Internet Explorer,...) that are connected to an AC500 or AC500-eCo, which was loaded with an Control Builder Plus or Automation Builder earlier than Automation Builder Version 1.2.0.

2.1.2 The following devices are not affected:

- CP600-WEB HMI panels
- Smart phones and tablets with MicroBrowser (Android & iPhone/iPad App)
- AC500 that were loaded with Automation Builder 1.2.0 or newer.

2.1.3 The following devices will not be affected

The new Java applet files are included in any Automation Builder since Version 1.2.0., Even if the PLC was loaded in a different profile within Automation Builder 1.2, e.g. Profile 1.1.

3 Solutions

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.

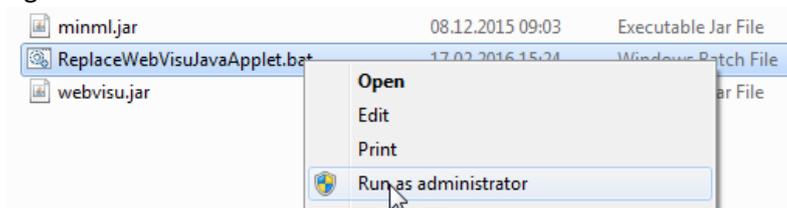
3.1 Replace Java applets with full download

The first 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.

3.1.1 Copy the supplied files to your CoDeSys 2.3 installation folder.

This can be done in two ways:

- a) Use the supplied batch file "ReplaceWebVisuJavaApplet.bat" and execute it with administrative rights



or

- b) copy the files manually

1. Locate the CoDeSys V2.3 installation directory:

On Windows 32-bit versions usually following path:

C:\Program Files\3S Software\CoDeSys V2.3\Visu

On Windows 64-bit versions usually following path:

C:\Program Files (x86)\3S Software\CoDeSys V2.3\Visu

2. Copy the supplied files **webvisu.jar**, **miniml.jar** in the appropriate directory from step 1. and overwrite existing files if necessary.

3.1.2 Compile, Redownload and create boot project

1. Open your existing project in Control Builder Plus or Automation Builder.
2. Open the PLC application
3. "**Project-> Clean All**" and then "**Project-> Compile All**"
4. **Login** into your PLC and **download** the program to the PLC. This will temporarily stop the PLC (display shows "STOP").
5. Afterwards, a boot project needs to be created on the PLC. „**Online->Login**“, „**Online-> Create boot project**“
6. You can restart the project by selecting: "**Online> Start**".
7. Open the URL Error! Hyperlink reference not valid._using your browser and verify that the web visualization is working correctly.

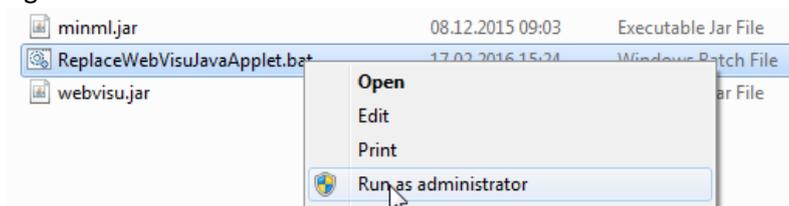
3.2 Replace Java applets on running PLC

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.

3.2.1 Copy the supplied files to your CoDeSys 2.3 installation folder.

This can be done in two ways:

- a) Use the supplied batch file "ReplaceWebVisuJavaApplet.bat" and execute it with administrative rights



or

- b) copy the files manually

1. Locate the CoDeSys V2.3 installation directory:

On Windows 32-bit versions usually following path:

C:\Program Files\3S Software\CoDeSys V2.3\Visu

On Windows 64-bit versions usually following path:

C:\Program Files (x86)\3S Software\CoDeSys V2.3\Visu

2. Copy the supplied files **webvisu.jar**, **miniml.jar** in the appropriate directory from step 1. and overwrite existing files if necessary.

3.2.2 Updat running project via Automation Builder and PLC Browser

This is only recommended if it is not possible to stop the PLC and update like described in chapter 3.1.

This method is not working with AC500 PLC Firmware less than FW2.3.0

1. Rename the supplied file "minml.jar" to "_minml.jar"
2. Rename the supplied file "webvisu.jar" to "_webvisu.jar"
3. With Automation Builder or Control Builder Plus open the PLC application.
4. Go online and download the file to the PLC:

Online -> Write file to PLC: _minml.jar

Wait for at least 30 seconds

Online -> Write file to PLC: _webvisu.jar

Wait for at least 30 seconds

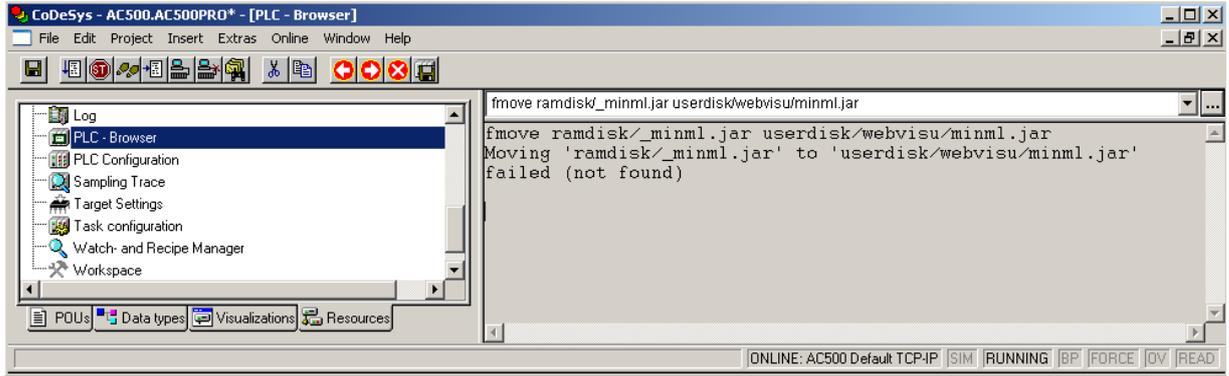
5. Using PLC Browsers commands, move the files from RAM Disk to the PLC:
Goto the Resources tab; open the PLC-Browser and type following commands

"fmove ramdisk/_minml.jar userdisk/webvisu/minml.jar"

Two additional lines will appear with following text:

“Moving 'ramdisk/_minml.jar' to 'userdisk/webvisu/minml.jar'
failed (success)”

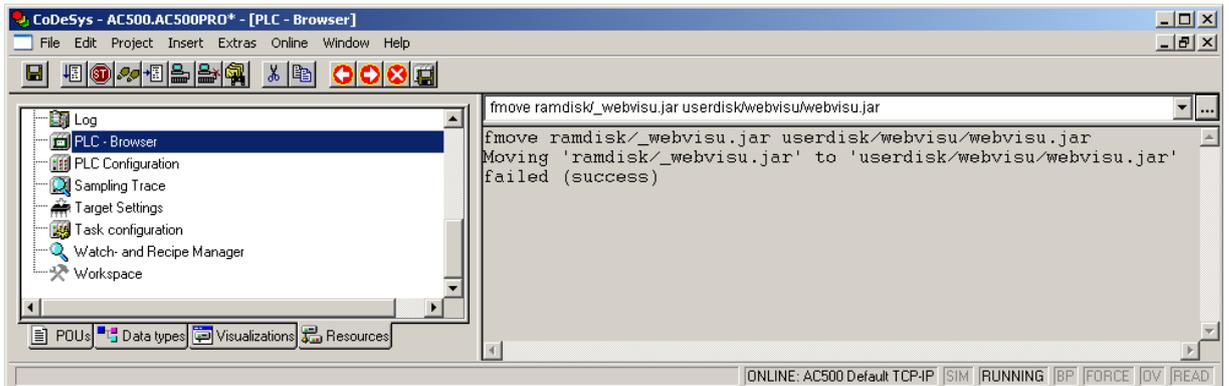
Wait for at least 30 seconds



“fmove ramdisk/_webvisu.jar userdisk/webvisu/webvisu.jar”

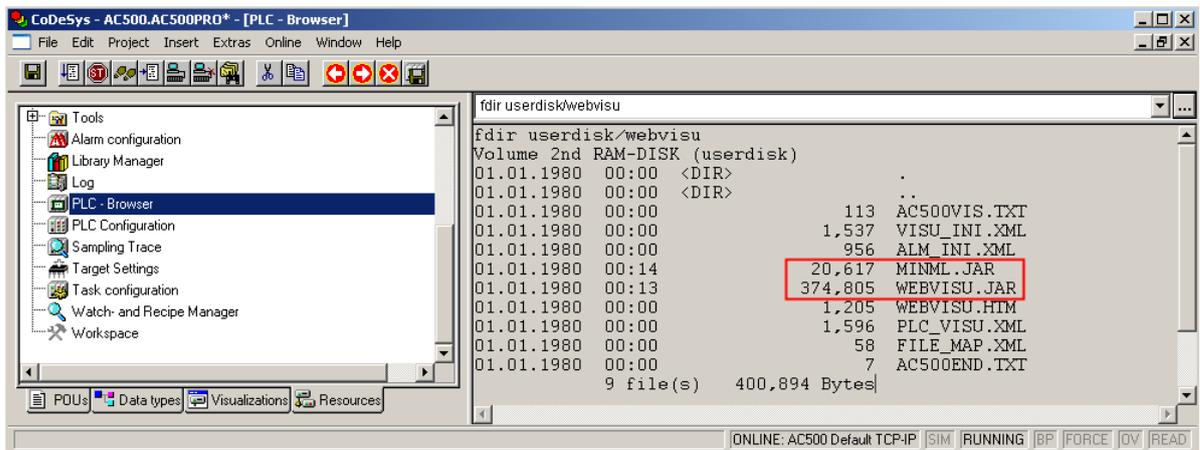
Two additional lines will appear with following text:
“Moving 'ramdisk/_webvisu.jar' to 'userdisk/webvisu/webvisu.jar'
failed (success)”

Wait for at least 30 seconds



Check if move command was successful by comparing the file size of the new copied files:

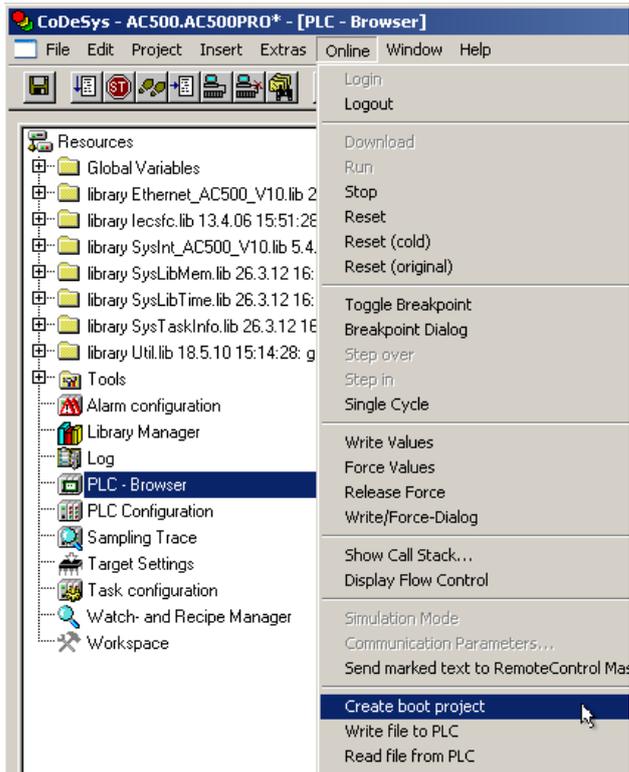
“fdir userdisk/webvisu”



MIML:JAR must be of 20.617
WEBVISU.JAR must be of 374,805

6. Create a bootproject to save copied files

Online -> Create boot project



3.2.3 Updat running project via FTP-server

If the FTP-server is configured in the running PLC it's possible to update the Java applets file via FTP file transfer.

1. Login to PLC's FTP-server
2. Upload the supplied minml.jar and webvisu.jar files to the remote folder **userdisk/webvisu/**
3. With Automation Builder or Control Builder Plus open the PLC application.
4. Login to the PLC and create a boot project to save copied files

Online -> Create boot project



After next reboot, although there is a new webvisu.jar and minml.jar, it will be still possible to login **without** download/online change.

notice

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HISTORY

History Index	Page (P) Chapter (C)	Description	Date Dept./Initials
A		Release	Feb 2015 DEAPR/ACP3
B	C 2.	Correction: also Automation Builder 1.2.0 is affected	Feb 2015 DEAPR/ACP3
C	C 2	Recorrect: Automation Builder 1.2.0 is not affected	Feb 2015 DEAPR/ACP3

