

## WbApplet Certificate Expiration 2012

October 24, 2013

### Problem

When accessing a Niagara station through a web browser using a WbWebProfile, the web browser runs workbench within a Java applet. To enhance security, this applet is 'signed' using a code signing certificate. This ensures that the applet has come from a reliable source and can be trusted to run with the proper permissions.

Certificates used to sign applets are issued by a Certificate Authority (CA). Each code signing certificate issued by a CA has an established expiration date, with the maximum expiration being two years. Once this expiration date has passed, continuing to use a Java applet with an invalid certificate will result in warning messages within the browser. The applet will only be allowed to run after the user has acknowledged the warning and granted approval.

Users will see the following error in their browser when accessing a station that is using a version of the wbapplet.jar with an expired code signing certificate:â##



The certificate used to sign the Java applet which runs workbench within a browser expires December 13, 2012. Updated versions of WbApplet have been created which are signed using a newly issued certificate. Users will either need to update the wbapplet.jar file on their Niagara stations, or if continuing to use the old applet be prepared to receive warnings from their browser. Updated WbApplet files are available as part of upcoming Niagara 3.5, and 3.6 maintenance builds, as well as being downloadable below. In 3.7 wbapplet.jar is integral to the web.jar and contains an up to date certificate.

## Solution

The wbapplet.jar file should be downloaded and installed on Niagara stations accessed using a browser and the Java applet.

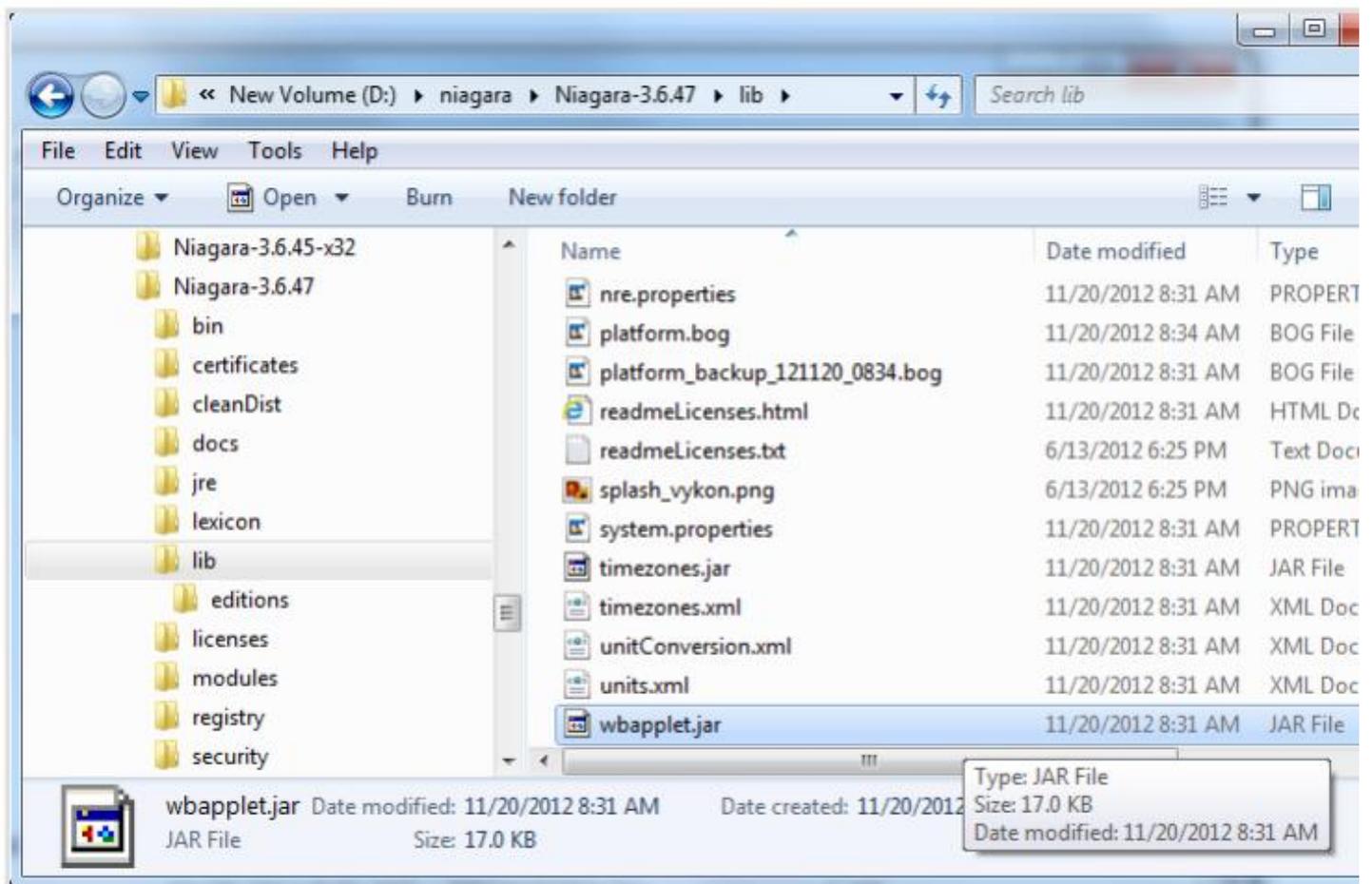
### Download

- wbapplet.jar

The new WbApplet's certificate expires on March 30, 2015.

## Supervisor Installation

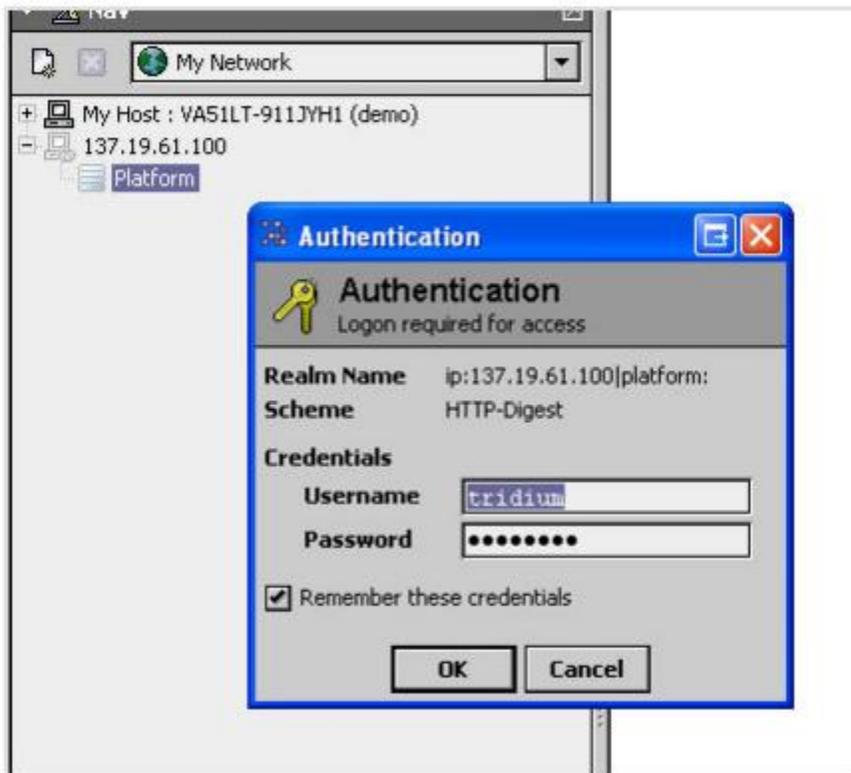
The wbapplet.jar is stored within the \lib folder, found in the root of the Niagara installation instance (example: C:\Niagara\Niagara-3.6.47). Simply copy the new WbApplet over the existing file. Since this is a .jar file, the natural inclination would be to put this in the modules folder, but that is not where the file belongs.



## JACE Installation Using Workbench

The wbapplet.jar file is stored within your Niagara installation's "lib" folder on 3.6 and earlier Niagara installations. Since this is a .jar file, the natural inclination would be to put this in the modules folder, but that is not where the file belongs. Updating this file will require a platform connection to the JACE. Follow the steps below to update the wbapplet.jar file, these steps will need to be repeated for each JACE accessed remotely using a browser and the workbench Java applet.

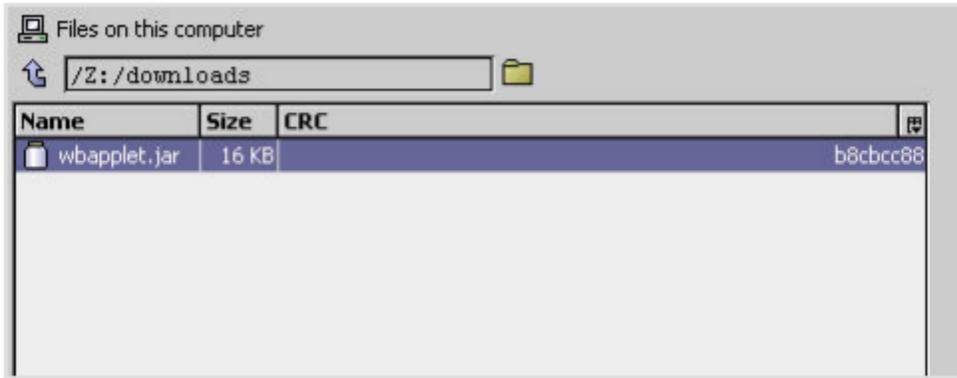
1. Open a platform connection to the JACE.



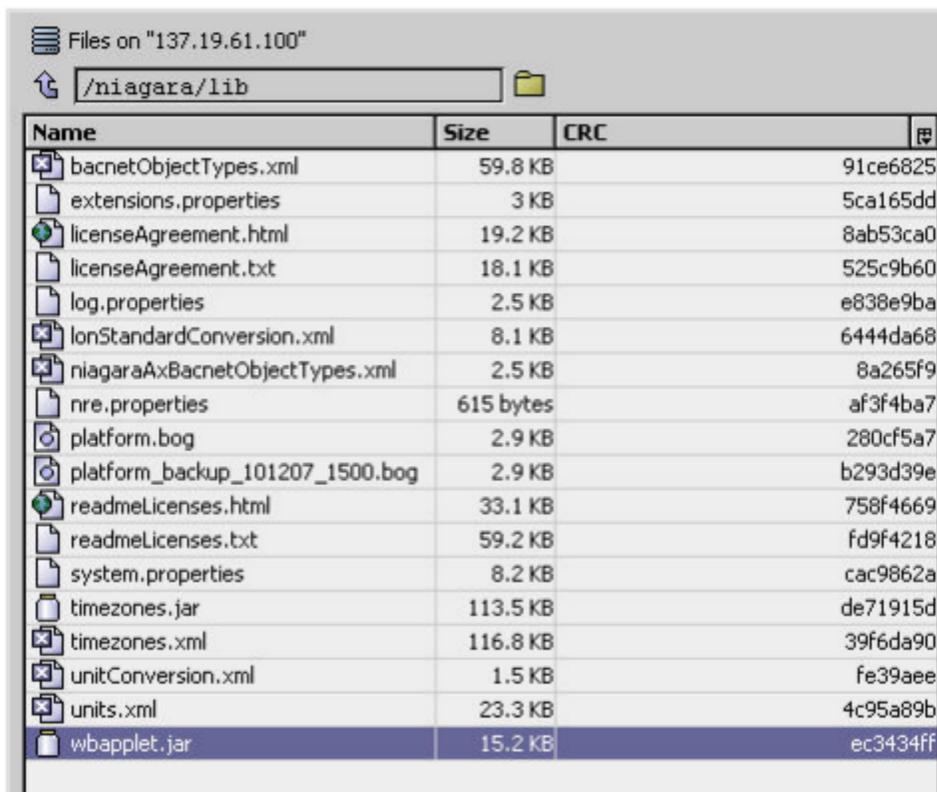
2. Access the 'File Transfer Client'

Platform	
Name	Description
Application Director	Control applications and access console output
DDNS Configuration	Configure the way DDNS operates.
Dialup Configuration	Configure the way the remote host uses dialup networking
Distribution File Installer	Install distribution files to the remote host
<b>File Transfer Client</b>	<b>Transfer files to and from the remote host</b>
GPRS Modem Configuration	Configure and Monitor GPRS modem
Lexicon Installer	Install lexicons to support additional languages
License Manager	Manage licenses and certificates
PKI Certificate Manager	Manage the Certificates and Keys used for PKI
Platform Administration	Update the platform daemon's port or credentials, or set its date and time
Software Manager	Install software to the remote host
Station Copier	Transfer stations to and from the remote host
TCP/IP Configuration	Manage the host's TCP/IP settings
Remote File System	The remote host's file system

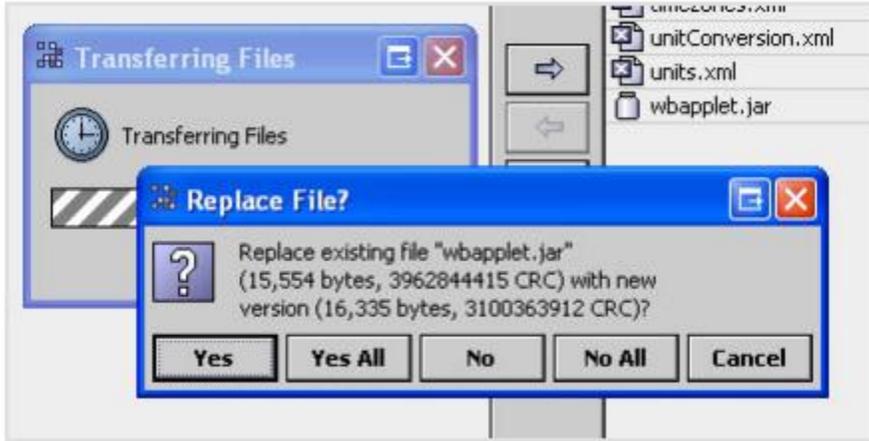
3. In the left window, locate the newly downloaded WbApplet.jar file on your local machine



4. Select the /niagara/lib folder in the JACE's file system



5. Select the local WbApplet.jar file and transfer it by clicking the right arrow button to copy to the JACE. Click yes to replace the existing file.



Once the WbApplet.jar file has been updated, new browser sessions will immediately start using the applet signed with the new certificate. No restart of the JACE platform is required. Any previously open browsers may need to be closed and reopened in order to use the new WbApplet. On some client desktops the Java cache may need to be cleared before the new wbapplet.jar will be downloaded.

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