

Technical Note: Missing Root Certificates For Java Verified

Version 1.0; February 23, 2005

Overview

The root certificate for Java Verified is missing in the early Developer Platform 2.0 devices.

The following Series 40 Developer Platform 2.0 and Series 60 Developer Platform 2nd Edition devices don't have the root certificate for Java Verified (Geotrust CA for UTI):

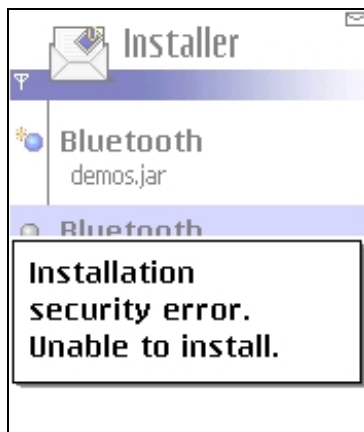
- Nokia 6600
- Nokia 6230
- Nokia 3220

The root certificate is needed for the installation of Java Verified tested applications. The root certificate is missing because the shipments of these specific devices started before the certificate was actually available.

Detailed Description

The Java Verified testing and certification program uses a UTI root certificate (also known as "GeoTrust CA for UTI"). This root certificate is missing from the Nokia 6600, Nokia 6230, and Nokia 3220 devices. When this root certificate is missing, the Java Verified tested applications cannot be installed.

If a Java Verified tested application is trying to be installed and a UTI root certificate is missing, the following error message is shown:



There is no way to install the Java Verified tested application as a trusted third-party application if the UTI root certificate is missing.

Solution / Workaround

If a MIDlet has been signed with a certificate for Java Verified applications, it can be installed if the following attributes are removed from the JAD file:

- MIDlet-Certificate-1-1
- MIDlet-Jar-RSA-SHA1

Without these lines the MIDlet is treated as untrusted (MIDP 1.0 MIDlets are treated as untrusted), and it thereby gives a warning message during the installation. This makes the application appear as if it were unsigned, but it is possible to install the application similarly as any unsigned application. When the MIDlet-Certificate-1-1 and MIDlet-Jar-RSA-SHA1 are removed, the MIDlet-Permissions attribute becomes redundant and it can be removed as well. Another possibility is to use only the JAR file for the installation. Also in this case the MIDlet is treated as an untrusted MIDlet.

The following figure shows the normal user prompt which is shown when an untrusted MIDlet is installed.



Summary

Signing MIDlets with a certificate for Java Verified applications should not be done for the above-mentioned devices because of the missing root certificate. If a MIDlet is signed, steps described in the Solution / Workaround section help you to install the MIDlet.

The following link provides information about mobile devices currently supported for testing through the Java Verified™ Program and devices which include the Unified Testing Initiative (UTI) root certificate: http://www.javaverified.com/supp_devices.jsp.

References

MIDP 2.0 specification

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