

Manual for Checking and Installing a Root Certificate in JAVA

Please refer to the manual below to manually install the root certificate in the trusted certificate list of JAVA. This procedure is required on the client side that calls the server where the TuringSign certificate is applied. If you have multiple installations of JAVA, you need to install the root certificate in the cacerts of the JAVA version used by your API for it to function properly. If you are unsure which JAVA is in use, it is recommended to install the root certificate in the cacerts of all JAVA installations.

I How to View the Root Certificate in the JAVA Keystore

Run the following command to check if the root certificate is included in the JAVA KeyStore (cacerts):

```
keytool -keystore "JAVA Home path/jre/lib/security/cacerts" -list -v -storepass changeit
```

- Check the output list to see if the OISTE WISeKey Global Root GB CA certificate is present.

Root certificate serial number: 76b1205274f0858746b3f8231af6c2c0

- If it is difficult to find, you can save the results to a text file for easier review:
keytool -keystore "JAVA Home path/jre/lib/security/cacerts" -list -v > cacerts.txt

I How to Install a Root Certificate

To install a root certificate to the *cacerts*, run the following command:

```
keytool -import -keystore cacerts -file "oistewisekeyglobalrootgbca.crt" -alias  
"oistewisekeyglobalrootgbca" -storepass changeit
```

- It is recommended to set the *alias* to match the certificate name.

I Notes for Root Certificate Installation

- The cacerts file is located in the default path specified by the JAVA environment, and you must have access to this path.
- The root certificate that you have installed and are using by yourself may not exist in the cacerts, and compatibility issues may occur depending on the JAVA version, so please use it with caution.
- After installing the root certificate, run the query command again to check that it has been added successfully.

If you need help or have any questions, please submit a ticket at <https://turingsign.com/contact/> or email sslsupport@turingsign.com