

Automated Transfer Tool (ATT)

Installation manual
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Rabobank



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1 INTRODUCTION

In order to install ATT you must complete three steps. There are separate instructions available for each step.

- 1) Instructions ATT certificate request, see Chapter 2
- 2) Instructions ATT certificate processing, see Chapter 3
- 3) Instructions ATT installation, see Chapter 4

Please be very precise during the different steps of the installation process.

2 INSTRUCTIONS ATT CERTIFICATE REQUEST

In order to use ATT you need a certificate to create a secure connection to Rabobank. This manual shows you how to request a certificate.

The instructions consist of three steps:

- 1) Opening the zip file
- 2) Making a certificate request
- 3) Sending the certificate to Rabobank

You must have Java Runtime Environment (JRE) 1.7 installed on your computer. You can only request a certificate if you have received a client name and user number from Rabobank.

2.1 Opening the zip file

You can download the ATT software from the ATT support page. In the zip file you will find the file: ATT_6Es_AC. This is a coded zip file. Open the file on your C-drive. The password for unzipping this file has been send by mail.

2.2 Making a certificate request

Go to the directory C:\ATT_INSTALLDIR\config\certificaat aanvraag\. There you will find the batch file: 1.generaterequest.bat. You need to carry out a number of changes in this file (right mouse button -> Edit/Bewerken). Also see the screenshot below. The segments circled in red must be changed to your personal values.

- KEYTOOL: fill in the address where your Java keytool is located (for example: "C:\Program Files\Java\jre7\bin\keytool"). The address must end with \keytool and the whole line must be in quotation marks.
- RABOBANKID: fill in the user number (of the form 300xxxxxx) sent to you by Rabobank.
- CLIENTNAME: fill in the name sent to you by Rabobank without interspacing.
- KEYSTOREPASSWORD: fill in a personal password. It can be any format; however, we recommend you do not select a short one (minimum of 5 characters).
- SAVE: do not forget to save this file on the current location (click on Opslaan/Save). Furthermore, we recommend that you also save these settings in another directory (Opslaan als/Save As).
- Close 1.generaterequest.bat. (Go to Bestand/File and click on Afsluiten/Close).

In the example of the file below (1) we have indicated which changes must be carried out. You will need this information again once you receive the certificate issued by Rabobank, so we strongly advise you to save this information.

Example 1

```
@echo off
rem
rem Generate Client Certificate.
rem Needs Java Runtime environment installed.
rem The program keytool is part of Java Runtime environment and should be set in script.
rem
rem Location of keytool program
set KEYTOOL="C:\Program Files\Java\jre6\bin\keytool"
set JKSLOCATION=../jvakeystore/

set RABOBANKID=3991234567
set CLIENTNAME=ATTClient
set KEYSTOREPASSWORD=password

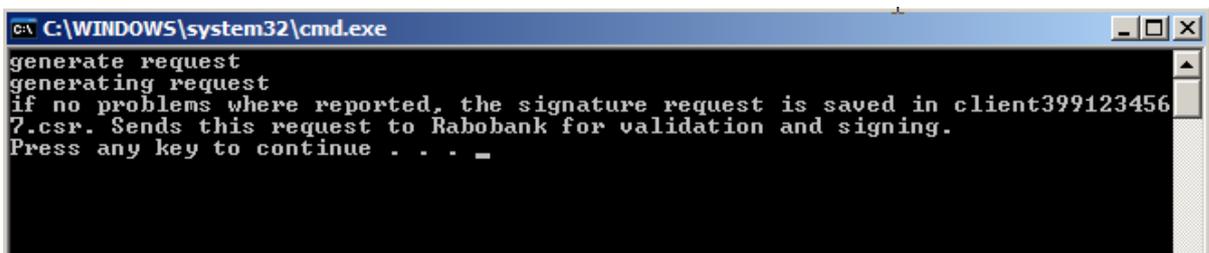
echo generate request
%KEYTOOL% -genkey -alias %RABOBANKID% -keystore %JKSLOCATION%clientstore%RABOBANKID%.jks -dname
"C=NL,S=Utrecht,L=Utrecht,O=Rabobank,OU=RI,2.5.50.1.0.0=%RABOBANKID%,CN=%CLIENTNAME%" -keyalg RSA -keypass %KEYSTOREPASSWORD%
-storepass %KEYSTOREPASSWORD%

echo generating request
%KEYTOOL% -certreq -alias %RABOBANKID% -keystore %JKSLOCATION%clientstore%RABOBANKID%.jks -file client%RABOBANKID%.csr -keypass
%KEYSTOREPASSWORD% -storepass %KEYSTOREPASSWORD%

echo if no problems where reported, the signature request is saved in client%RABOBANKID%.csr. Sends this request to Rabobank for
validation and signing.
pause
```

Now you can use the programme to generate a certificate request (example 2). Open (double-click) the programme: 1.generaterequest.bat. A window similar to this one will open.

Example 2



```
C:\WINDOWS\system32\cmd.exe
generate request
generating request
if no problems where reported, the signature request is saved in client3991234567.csr. Sends this request to Rabobank for validation and signing.
Press any key to continue . . . _
```

Two files will have been created:

- 1) the Java client keystore (jks)
- 2) the certificate signature request (csr)

You can find both files in the folder C:\ATT_INSTALLDIR\config\certificaat aanvraag.

Press any key to continue

2.3 Sending the certificate request

The csr-file, in this case client3991234567.csr in the folder C:\ATT_INSTALLDIR\config\certificaat aanvraag, must be sent to Rabobank. We request that you add the information listed below to your e-mail.

- Certificate owner
- Statutory company name
- Contact person
- Date of birth contact person
- Telephone number
- Company adress
- Email address applicant
- Company name
- Company department (if applicable)
- Expected starting date

Send the e-mail to: corporatesupport@rabobank.com

IMPORTANT!

Make a copy of C:\ATT_INSTALLDIR\config for back-up purposes. We recommend that you save it in C:\ATT_INSTALLDIR.

The first part of ATT installation is finished. Your certificate request has been sent to the Rabobank. Once you have received the certificate you can continue with the next step.

3 INSTRUCTIONS ATT CERTIFICATE PROCESSING

The second part of the ATT installation is processing the certificate of Rabobank sent to you by e-mail. Without this certificate you cannot continue.
The instructions consist of two steps:

- 1) Importing certificates
- 2) Check import of signed certificate

After you have completed these steps you can install ATT with chapter 4 of the installation manual, "Instructions ATT Installation".

3.1 Importing certificates

You have received your requested certificate from Rabobank via e-mail with file extension.txt. Save this file in the folder C:\ATT_INSTALLDIR\config\certificaat aanvraag\
Rename the file to client<usernumber>.cert.

In <usernumber>, fill in the user number you have received. Please note:
the pictogram of the file will change. See example below (3):

Example 3

Name	Size	Type
processclientcertificate.bat	2 KB	MS-DOS Batch File
RabobankGroupRootCA.cer	2 KB	Security Certificate
RabobankSystemCA01.cer	3 KB	Security Certificate
RabobankSystemCA02.cer	3 KB	Security Certificate
client3991234567.cer	2 KB	Security Certificate

3.2 Processing the certificate

In the folder C:\ATT_INSTALLDIR\config\certificaat aanvraag\ you will find the file:
2.processclientcertificate. You must edit this file (right mouse button -> Edit/Bewerken).
You must carry out the following changes:

- KEYTOOL: enter the address of your Java keytool location (e.g. C:\program files\java\bin\keytool).
- RABOBANKID: fill in the user number (of the form „300xxxxxx“) that you have received from Rabobank.
- CLIENTNAME: fill in the same name you used during the certificate request. (You made a backup at that time)
- KEYSTOREPASSWORD: fill in the password you selected earlier.

You can also copy the information from 1.generaterequest.bat (see paragraph 2.2)

- Save your changes.
- Close 2.processclientcertificate.

Start the reconfigured script by double-clicking with the left mouse button on 2.Processclientcertificate.bat. This will import the signed certificate and the trusted root certificates in the Java keystore. The window shown below will open (4).

Example 1

```
C:\WINDOWS\system32\cmd.exe
importing ca cert.
Owner: CN=Rabobank Group Root CA, DC=rabobank, DC=corp
Issuer: CN=Rabobank Group Root CA, DC=rabobank, DC=corp
Serial number: 77edbc7a056156914ac071394c909ca7
Valid from: Tue Feb 12 10:36:27 CET 2008 until: Sat Feb 12 10:43:49 CET 2028
Certificate fingerprints:
    MD5:  E9:F3:DD:45:0E:F3:D8:42:7D:E5:59:74:7F:DD:84:96
    SHA1: F2:30:F3:83:A5:CF:57:3A:52:5D:59:AD:EE:AC:E2:7F:12:CA:EB:1E
    Signature algorithm name: SHA1withRSA
    Version: 3

Extensions:
#1: ObjectId: 2.5.29.19 Criticality=true
BasicConstraints:[
    CA:true
    PathLen:2147483647
]
#2: ObjectId: 2.5.29.15 Criticality=false
KeyUsage [
    DigitalSignature
    Key_CertSign
    Crl_Sign
]
#3: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
KeyIdentifier [
0000: D2 CC AA 90 10 5A D8 D1   94 9A C2 EC B7 B9 6C 09   .....Z.....l.
0010: 19 4C 83 8B                               .L..
]
]
#4: ObjectId: 1.3.6.1.4.1.311.21.1 Criticality=false
Trust this certificate? [no]:
```

Type 'yes' to trust the root certificate and press ENTER. The following will appear on screen (5):

Example 2

```
c:\WINDOWS\system32\cmd.exe
Key_CertSign
Cr1_Sign
]
]
#3: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
KeyIdentifier [
0000: D2 CC AA 90 10 5A D8 D1 94 9A C2 EC B7 B9 6C 09 .....Z.....1.
0010: 19 4C 83 8B .L..
]
]
]
#4: ObjectId: 1.3.6.1.4.1.311.21.1 Criticality=false
Trust this certificate? [no]: yes
Certificate was added to keystore
Certificate was added to keystore
Certificate was added to keystore
importing certificate

the certificate store "../JavaKeyStore/"clientstore3991234567.jks can be configured in the Att Tool.
The password for the key and store is password
Press any key to continue . . . _
```

The certificate has now been imported.
Press any key. The programme will close automatically.

3.3 Check import of signed certificate

Go to directory C:\ATT_INSTALLDIR\config\certificaat aanvraag\. Here you will find the file: 3.Checkjavakeystore. Click on this file with the right mouse button and select Bewerken/Edit.

You must carry out a number of changes in this file; see the screenshot below (6):

- RABOBANKID: fill in the user number (of the form „300xxxxxx“) that you have received from Rabobank.
- KEYSTOREPASSWORD: fill in the password you selected earlier.
- SAVE: save this file (go to Bestand/File and click on Opslaan als/Save As).
- CLOSE 3. Checkjavakeystore (go to Bestand/File and click on Afsluiten/Close).

Example 3

```
CheckJavakeystore.bat - Notepad
File Edit Format View Help
@echo off
rem
rem Check JavaKeystore.
rem
rem Needs Java Runtime environment installed.
rem The program keytool is part of Java Runtime environment and should be set in script.
rem location of keytool program.
set KEYTOOL="C:\Program Files\Java\jre6\bin\keytool"
set JKSLOCATION="..\JavaKeystore/"
set RABOBANKID=3991234567
set KEYSTOREPASSWORD=password
echo checking java keystore
%%KEYTOOL% -list -keystore %JKSLOCATION%clientstore\RABOBANKID%.jks -storepass %KEYSTOREPASSWORD%
pause
```

Start the reconfigured script by double-clicking with the left mouse button on 3.Checkjava keystore to start the check. A window similar to example 7 below will appear.

Example 4

```
C:\WINDOWS\system32\cmd.exe
Checking java keystore
Keystore type: JKS
Keystore provider: SUN
Your keystore contains 4 entries
rootca, 16-feb-2011, trustedCertEntry,
Certificate fingerprint (MD5): E9:F3:DD:45:0E:F3:D8:42:7D:E5:59:74:7F:DD:84:96
sysca02, 16-feb-2011, trustedCertEntry,
Certificate fingerprint (MD5): 4D:3D:DE:1B:E4:15:92:1C:E3:E7:3B:B0:2A:40:39:54
sysca01, 16-feb-2011, trustedCertEntry,
Certificate fingerprint (MD5): BA:28:AD:88:36:1A:49:E0:89:33:DC:F5:CA:B3:E8:82
3991234567, 16-feb-2011, PrivateKeyEntry,
Certificate fingerprint (MD5): 2A:D6:54:8C:73:DF:5B:B8:6B:8D:3F:F0:43:12:34:5E
Press any key to continue . . .
```

Check to make sure that there are four certificates in the keystore: "Your keystore contains four entries". Three trusted certificate entries and one private key

Press any key. The programme will close automatically.

If you have completed all the steps successfully, you can continue with the last step: the settings of ATT. See chapter four.

4 INSTRUCTION ATT INSTALLATION

To use ATT properly you must reconfigure certain batch files with local PC settings and information such as user number and Java location.

The instructions consist of three 3 steps.

- 1) Editing attclient.bat file
- 2) Generating jks.store.properties file
- 3) Generating TransportStoreProperties.bat file

4.1 Editing the file attclient.bat

Go to folder C:\ATT_INSTALLDIR\bin and edit the script attclient.bat (right mouse button -> Edit/Bewerken) and change the following settings. See example 8.

- Change the setting in Java for ATT to: @set JAVA_HOME=Example C:\Program Files\Java\jre7
- Change the necessary trust store to: @set TRUST_STORE=C:\ATT_INSTALLDIR\config\certificaterequest\clientstore <usernumber>.jks. The user number was sent to you by Rabobank.
- SAVE: save this file (go to File and click on Save As).
- Close (go to File and click on Close).

Example 5

```
@echo on
REM
REM Log:
REM TODO DPK verify why some jars are referenced in the classpath that are not available in the lib folder?
REM
REM
REM Please check the configuration of the att client!
REM This should be done by verifying the values specified for the following properties.
REM
REM for debugging use -djavax.net.debug=all
@set JAVA_HOME=C:\Program Files\Java\jre6
@set ATT_INSTALLDIR=C:\ATT_INSTALLDIR
@set TRUST_STORE=%ATT_INSTALLDIR%\config\certificaataanvraag\prodca\clientstore34545453.jks

REM Application specific properties (should not need changes)
@set JAVA="%JAVA_HOME%\bin\java"
@set ATT_CLASSPATH=%ATT_INSTALLDIR%\config;%ATT_INSTALLDIR%\lib\log4j.jar;%ATT_INSTALLDIR%\lib\rct-server.jar;%ATT_INSTALLDIR%\lib\ibmjceprovider.jar;%ATT_
REM rest of attclasspath %ATT_INSTALLDIR%\lib\commons-httpclient.jar;%ATT_INSTALLDIR%\lib\commons-codec.jar;%ATT_INSTALLDIR%\lib\commons-logging.jar;

REM The following parameters must be supplied to the AutoTransferTool
REM Use parameters:
REM 1 = configuration file name (by default: default)
REM 2 = upload / download
REM 3 = depending on context (like format parameters - NL-CLIEOP03)
REM 4 = order type (CLI or CIN)
%JAVA% -classpath %ATT_CLASSPATH% -djavax.net.ssl.trustStore=%TRUST_STORE% -djavax.net.debug=all de.coconet.neander.att.AutoTransferTool %1 %2 %3 %4
```

4.2 Generate jks.store.properties file

The next step is generating the jks.store.properties file. It will create an encrypted password for the Java keystore and the location of the keystore on your server or work station.

Go to the directory C:\ATT_INSTALLDIR\config\certificaat aanvraag. Here you will find the file: 4.GenerateJKSStoreProperties.bat. Click on this file with the right mouse button and select Bewerken/Edit.

A number of things must be checked in this file (see example 9).

- @set JAVA_HOME= Your Java Home. Example C:\Program Files\Java\jre7 (This is the address where the bin and the lib directory are located)
- @set ATT_INSTALLHOME= Example C:\ATT_INSTALLDIR
- SAVE: save this file (go to Bestand/File and click on Opslaan als/Save as)
- CLOSE (go to Bestand/File and click on Afsluiten/Close).

If the settings are accurate and refer to the correct locations on your PC, you do not need to change anything.

Example 6

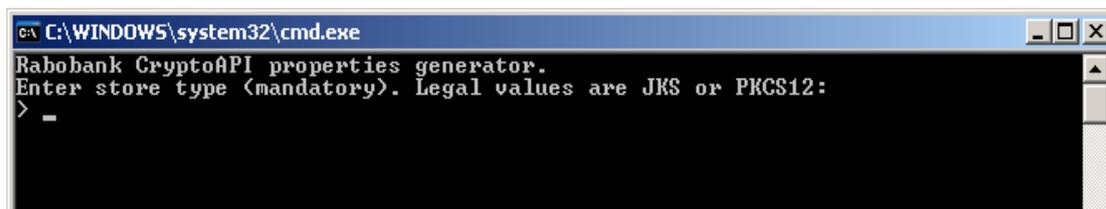


```
4. GenerateJKSStoreProperties.bat - Notepad
File Edit Format View Help
@echo off
@set JAVA_HOME=C:\Program Files\Java\jre6
@set JAVA=\"%JAVA_HOME%\bin\java"
@set ATT_INSTALLDIR=c:\ATT_INSTALLDIR|

%JAVA% -classpath %ATT_INSTALLDIR%\lib\rct-server.jar com.rabobank.rct.utils.PropertiesGenerator %ATT_INSTALLDIR%\co...
```

Now go to the directory C:\ATT_INSTALLDIR\config\certificaat aanvraag\
Start the reconfigured script by double-clicking with the left mouse button on
4.GenerateJKSStoreProperties.bat in order to generate the jks.store.properties file (example
10).

Example 7



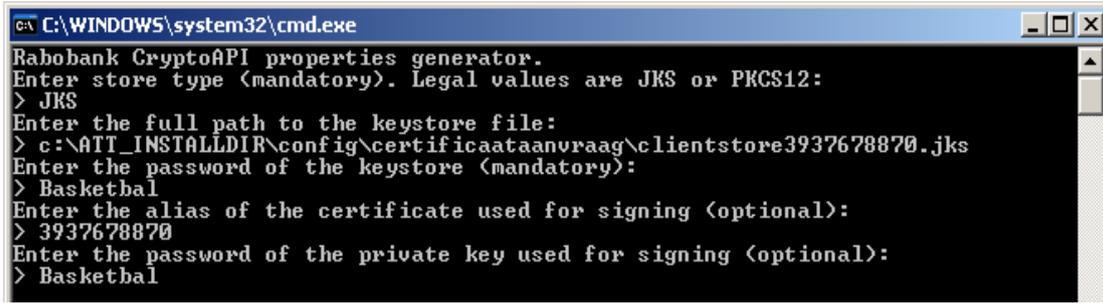
```
C:\WINDOWS\system32\cmd.exe
Rabobank CryptoAPI properties generator.
Enter store type (mandatory). Legal values are JKS or PKCS12:
> _
```

After running the programme, fill in the following information if requested (see example 11)

- Enter store type: JKS (Click ENTER)
- Enter the full path to keystore: this is the location of your new Java keystore. In this case: C:\ATT_INSTALLDIR\config\certificaterequest\clientstore<usernumber>.jks (do not forget to enter your personal user number). (Click ENTER)
- Enter the password of the keystore: the password created earlier (Click ENTER).
- Alias for signing: your user number (Click ENTER). This is not optional!
- Password for signing: enter the password created earlier again (Click ENTER). This is not optional!

The programme will close automatically.

Example 8

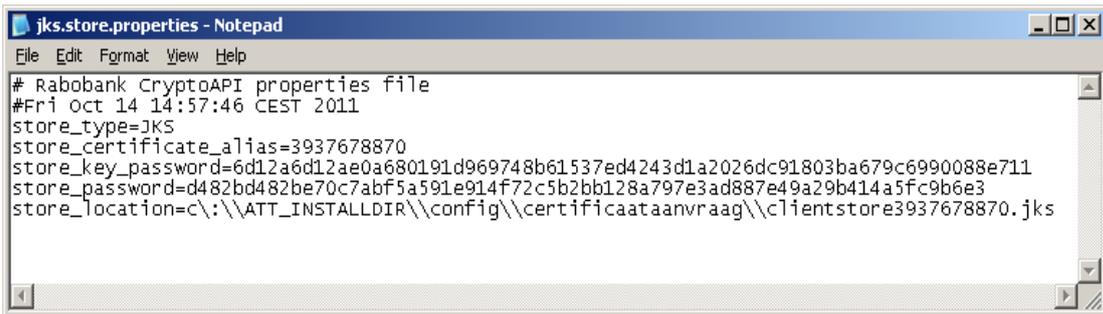


```
C:\WINDOWS\system32\cmd.exe
Rabobank CryptoAPI properties generator.
Enter store type (mandatory). Legal values are JKS or PKCS12:
> JKS
Enter the full path to the keystore file:
> c:\ATT_INSTALLDIR\config\certificaataanvraag\clientstore3937678870.jks
Enter the password of the keystore (mandatory):
> Basketbal
Enter the alias of the certificate used for signing (optional):
> 3937678870
Enter the password of the private key used for signing (optional):
> Basketbal
```

After running `GenerateJKSStoreProperties.bat`, a new version will be created of the file: `jks.store.properties`. See example 12. You can find it in the directory: `C:\ATT_INSTALLDIR\config`. Click with the right mouse button on this file and open it with the programme Notepad.

The `jks.store.properties` will look similar to the example below.

Example 9



```
jks.store.properties - Notepad
File Edit Format View Help
# Rabobank CryptoAPI properties file
#Fri Oct 14 14:57:46 CEST 2011
store_type=JKS
store_certificate_alias=3937678870
store_key_password=6d12a6d12ae0a680191d969748b61537ed4243d1a2026dc91803ba679c6990088e711
store_password=d482bd482be70c7abf5a591e914f72c5b2bb128a797e3ad887e49a29b414a5fc9b6e3
store_location=c:\ATT_INSTALLDIR\config\certificaataanvraag\clientstore3937678870.jks
```

Close the file. (Go to Bestand/File and click on Afsluiten/Close).

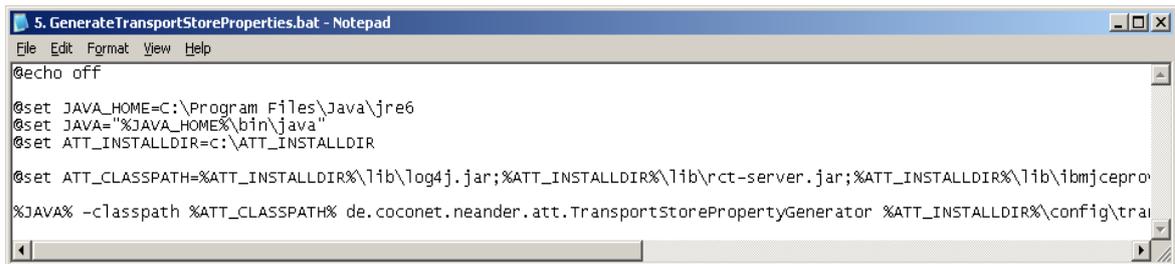
4.3 Generating the `transport.store.properties` file

Go to the directory `C:\ATT_INSTALLDIR\config\certificaat aanvraag\`. Click on the file: `5.GenerateJKSStoreProperties.bat` with the right mouse button and select `Bewerken/Edit`.

You must carry out put a number of changes in this file; see the screenshot below (example 13):

- `@ set ATT_INSTALLDIR=` In this case `C:\ATT_INSTALLDIR`
- `SAVE:` save this file (go to File and click on Save as).
- Close this directory (go to File and click on Close).

Example 13



```

5. GenerateTransportStoreProperties.bat - Notepad
File Edit Format View Help
@echo off

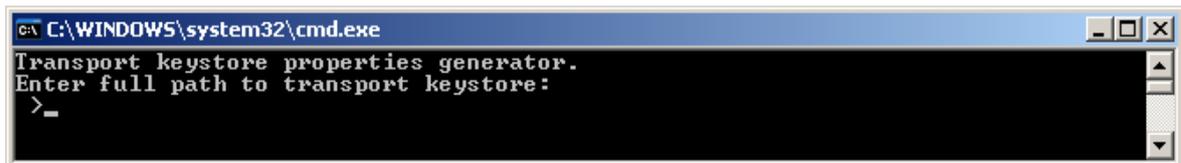
@set JAVA_HOME=C:\Program Files\Java\jre6
@set JAVA=%JAVA_HOME%\bin\java"
@set ATT_INSTALLDIR=C:\ATT_INSTALLDIR

@set ATT_CLASSPATH=%ATT_INSTALLDIR%\lib\log4j.jar;%ATT_INSTALLDIR%\lib\rct-server.jar;%ATT_INSTALLDIR%\lib\ibmjcepro
%JAVA% -classpath %ATT_CLASSPATH% de.coconet.neander.att.TransportStorePropertyGenerator %ATT_INSTALLDIR%\config\tra
  
```

Now start the programme 5.GenerateTransportStoreProperties.bat (double-click) in folder C:\ATT_INSTALLDIR\config\certificaat aanvraag\ in order to generate the file transport.store.properties.

The following window will open.

Example 14



```

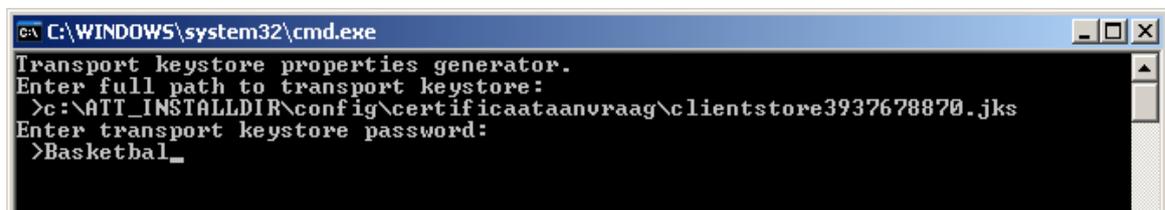
C:\WINDOWS\system32\cmd.exe
Transport keystore properties generator.
Enter full path to transport keystore:
>_
  
```

After running the programme, fill in the following information if requested (see example 15):

- Enter full path to transport keystore: this is the location of your new Java keystore. In this case: C:\ATT_INSTALLDIR\config\certificaataanvraag\clientstore"userid"jks (Click ENTER).
- Enter transport keystore password: the password you selected earlier (Click ENTER).

The programme will close automatically.

Example 15

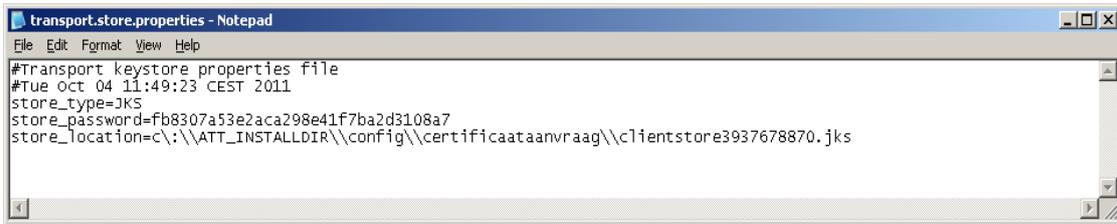


```

C:\WINDOWS\system32\cmd.exe
Transport keystore properties generator.
Enter full path to transport keystore:
>c:\ATT_INSTALLDIR\config\certificaataanvraag\clientstore3937678870.jks
Enter transport keystore password:
>Basketbal_
  
```

After carrying out 5.GenerateTransportStoreProperties.bat, a new version of the file transport.store.properties will be created. You can find it in the directory: C:\ATT_INSTALLDIR\config. Click on this file with the right mouse button and open it with the programme Notepad.

Example 16



```
transport.store.properties - Notepad
File Edit Format View Help
#Transport keystore properties file
#Tue Oct 04 11:49:23 CEST 2011
store_type=JKS
store_password=fb8307a53e2aca298e41f7ba2d3108a7
store_location=c:\\ATT_INSTALLDIR\\config\\certificaataanvraag\\clientstore3937678870.jks
```

ATT is now ready for use.

Chapter 5 provides important information about ATT. Don't forget to download the user manual.

Congratulations! You have successfully installed ATT on your computer.

5 SUPPORT AND SERVICE

For more information on the software supplied and the installation of the software, go to www.rabobank.com/ATT
Here you will also find the ATT user manual.

After you successfully started using ATT you can call Rabo Corporate Support in case of any questions :

Contact information Rabo Corporate Support

Service hours: Working days from 8.00 a.m. to 5.30 p.m.

Email: corporatesupport@rabobank.com

Telephone: +31 (0) 30 71 21 777

Please have the following information present when calling Rabo Corporate Support. When sending an email please provide this information also. It will help us help you.

- A clear statement of the problems you are experiencing
- If relevant the ATT log;
- The name of the upload or download file
- Your company information
 - Company name
 - ATT user number (if known)
 - Contact information