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User manual for the information system of



Web Interface

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INTRODUCTION

The web interface of the OTE information system provides market participants with access to functions for submitting and consulting data through an Internet browser using an open and secure connection.

The scope of functionality accessible through the web interface covers the submission of bid data to the day-ahead market, bilateral contracts, bids for the intra-day market and balancing market and claims. It also covers the consultation of data information sent earlier as well as the results of processes for intra-day market matching, bilateral contract aggregation, bid aggregation on the intra-day and balancing market, imbalance calculation and settlement.

The presented document describes the general web interface functions, including client station configuration and access to the server.

The user manuals for specific individual areas included into the web are given separately as follows:

- Day-ahead market
- Bilateral contracts
- Claims
- Intra-day market and balancing market

The settlement matter is dealt with briefly in the document, primarily regarding consultations accessible via the web interface.



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1 CLIENT STATION CONFIGURATION

1.1 Operation system and Internet browser versions

The client station used to operate the IS OTE is supported in the following operation system configurations:

- Windows 2000 Professional SP4 + MS IE 6.0 SP1
- Windows 2000 Professional SP4 + MS IE 6.0 SP2
- Windows XP Professional SP2 + MS IE 6.0 SP2
- Windows XP Professional SP2 + MS IE 7.0

1.2 Configuration for input and output via file

Depending on the operation system of the client station, it is necessary to perform the following configuration for consulting day-ahead market bid data, the realization of bilateral contracts and for intra-day market and balancing market bids via file (please see the respective user manuals):

Windows 2000 Professional, Windows XP Professional

1. Select *Tools* in the *Windows Explorer*, then select *Folder options*.
2. The following new file types must be created under the tab *File Types*: **NAB, DVS, VVT, VVA**. Click the *New* button and enter a new file extension (i.e. "NAB"). By clicking on *Advanced*, an *Associated File Type* list will open up, in which you will select *Application Data Control*, or *Tabular Data Control*.
3. In the *File Types* tab, mark the file extension just defined and click on *Advanced*. In the newly opened *Edit File Type* window, add a new *Action* by clicking on *New*. In the *New Action* window, enter "open" in the *Action* field and "Notepad.exe" into the *Application used to perform action* field.
4. In order to save the created file onto disk, check the *Confirm open after download* option in the *Edit File Type* window. If this option is not checked, the last selected application (Notepad) will be opened for each output via file. If the user marks this option as inactive through the Internet browser, the user will have to return to *Windows Explorer* to activate it.

If these file types are not defined ("NAB" for day-ahead market bids, "DVS" for the bilateral contract realizations, "VVT" and "VVA" for the intra-day market and balancing market), the file content will be displayed in the Internet Explorer browser when consulting via file in place of the option to select a directory for saving file onto disk.



1.3 Setting of registers

It is suitable, on computers processing large volumes of data via file (hundreds of BC realizations), to select in the following folder:

HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\InternetSettings

a *DWORD* type parameter entitled *ReceiveTimeout* and set it at 86400000. This value sets the period in which the Internet Explorer (IE) will wait for a response from the server. If the IE does not receive a response within the set period, it will resend the data to the server with a request to process, and the repeated sending and processing of data may occur (i.e. two versions of each BC realization will be created) or the connection to the server may be lost (the submitting party then may not know whether his request was entered into the OTE IS). The value sets the waiting period in milliseconds.

As the setting in the *HKEY_CURRENT_USER* folder applies only for the user is logged onto the computer at the time of the parameter creation, it is necessary - in the event that there are more users working on this computer - to enter a parameter for each user submitting instructions.



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2 CONFIGURATION OF CLIENTS STATION FOR SUN JAVA

Following chapters describe installation and configuration of Sun Java application, which is necessary to the right functioning of new applets of the WEBSIOM application. Chapters describe configuration of internet browser and other necessary configuration.

2.1 Brief description of transition from MS Java to Sun Java

This chapter summarizes how to make a transition from a current MS Java to SUN Java virtual machine. Please see following chapters:

- Chapter 2.4 – describes removal of Microsoft Java VM. This step should be done by an expert user (system administrator).
- Chapter 2.2 – provides a user with a set of steps for verification of a workstation on existence of SUN Java including Java version.
- Chapter 2.5 – installation of SUN Java including download.
- Chapter 2.6 – Internet Explorer setup for SUN Java
- Chapter 2.8 – installation instruction for certificates (from now certificates must be installed directly in the SUN Java directory in order to run applets).
- Chapters 3.6 and 3.7 – changes in login procedure enforced by a SUN Java approach (valid for SIOM; market server).

2.2 Verification of Sun Java on the client station

In order to verify existence of SUN Java on your workstation do following. Open **Control Panel** window (main menu, **Start** -> **Control Panel**). Click on **Java** icon in order to open “Java Control Panel”. Click on the **About** button. **About Java** window shows a current Java version. If you will not find Java icon in the ControlPanel window then Java has not been installed on your workstation yet.

Important: If you have Sun Java on your computer, it is necessary to do following steps:

1. Do you have version **J2SE(TM) Runtime Environment 5.0 Update 6** (version 1.5.0_06)? If yes, it is not necessary to download and install this program. Continue with configuration of IE, chapter 2.6.
2. Do you have higher version of Sun Java than in the point 1? If yes, it is not necessary to download and install this program. Continue with configuration of IE, chapter 2.6.
3. Do you have lower version of Sun Java than in the point 1? If yes, it is necessary to continue with downloading and installing Sun Java, chapter 2.5.

It is always necessary to install correct certificate for the right functioning of the application WEBSIOM, chapter 2.8.



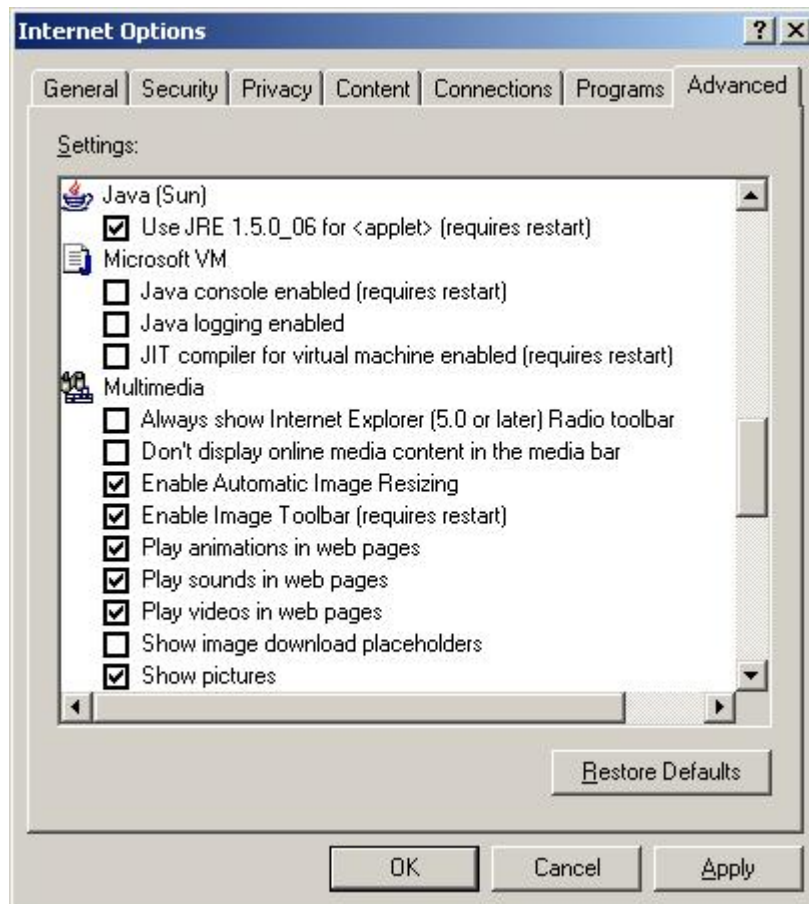
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2.3 Microsoft VM - MS Java

- If it is necessary to use both of Java applications (MS and Sun), than you have to switch between them. It is not possible to switch on both at the same time. Only one of them can be used.



- If is necessary to uninstall MS Java application (Microsoft VM) from the clients station then do the following steps, chapter 2.4. **The uninstallation of Microsoft VM can be done only by administrator!**

2.4 How to uninstall MS Java application



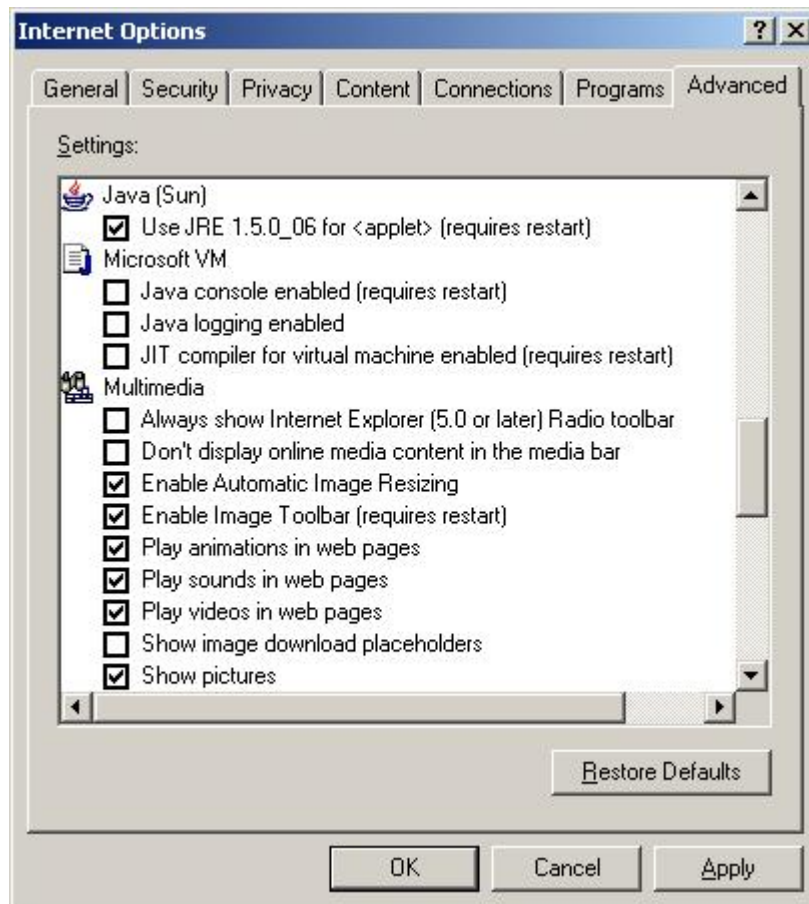
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The uninstallation of Microsoft VM application (MS Java) from client's station does just the administrator. Do the following steps:

1. First it is necessary to deactivate Microsoft VM in the IE settings: Tools – Internet options – Advanced. There you can find Microsoft VM item. Deactivate all its nested items.



2. Download following files from OTE web page http://www.ote-cr.cz/the-participants/registration-procedure/files-installation-procedure-sun-java/MS_JAVA_Uninstall.bat – **MS_JAVA_Uninstall.bat** and from http://www.ote-cr.cz/the-participants/registration-procedure/files-installation-procedure-sun-java/MS_JAVA_Uninstall_2.bat - file **MS_JAVA_Uninstall_2.bat**. Store those files in the root directory on your HD, e.g. **c:\ drive**
3. Run **MS_JAVA_Uninstall.bat** file from a root directory (**c drive**)
4. **Microsoft_VM_uninstall** will be open. Please click on „Yes“ button.
5. If needed restart your workstation in order to complete the removal of Microsoft VM.
6. After restart of the workstation run **MS_JAVA_Uninstall_2.bat** file.
7. The Microsoft VM (MS Java) is removed from your workstation now. If this procedure has not completed successfully please follow instructions, which can be found in



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appendix A (just in case that automated uninstall failed and Microsoft VM is still on your workstation).

2.5 Sun Java Installation instructions

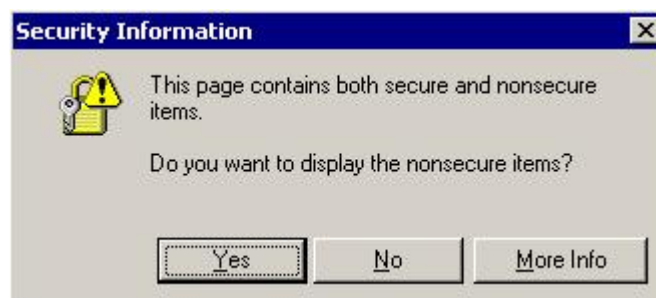
Because of switching from MS Java to Sun Java some applications which need MS Java can work improperly. If there is situation both of Java applications are needed it is necessary to solve this with administrator. The following steps don't solve problems of using both Java applications together.

If you want to uninstall Microsoft VM application (MS Java) from the client's station and to use just Sun Java application, uninstall Microsoft VM before you begin with installation of Sun Java. Uninstallation of Microsoft VM describes chapter 2.4

Description of installation of Sun Java follows.

First it is necessary to download Java Sun installation package:

1. Open Internet Explorer and use the address to open the website:
https://cds.sun.com/is-bin/INTERSHOP.enfinity/WFS/CDS-CDS_Developer-Site/en_US/-/USD/ViewProductDetail-Start?ProductRef=jre-1.5.0_06-oth-JPR@CDS-CDS_Developer.
2. If the security window in the picture appears, it's necessary to click on the "Yes" button:



3. After this the website **J2SE(TM) Runtime Environment 5.0 Update 6** opens.
4. On this site it's necessary to choose **Platform - Windows**, set up **Language** on **Multi-language**, choose **I agree...** and click on the **Continue** button.
5. The new website **Download J2SE(TM) Runtime Environment 5.0 Update 6 for Windows, Multi-language** is shown (If the security window appears again, click on the Yes button).
6. On this website it's necessary to choose **Windows Offline Installation** in the part called **Required Files**, it means to click on the shortcut **jre-1_5_0_06-windows-**



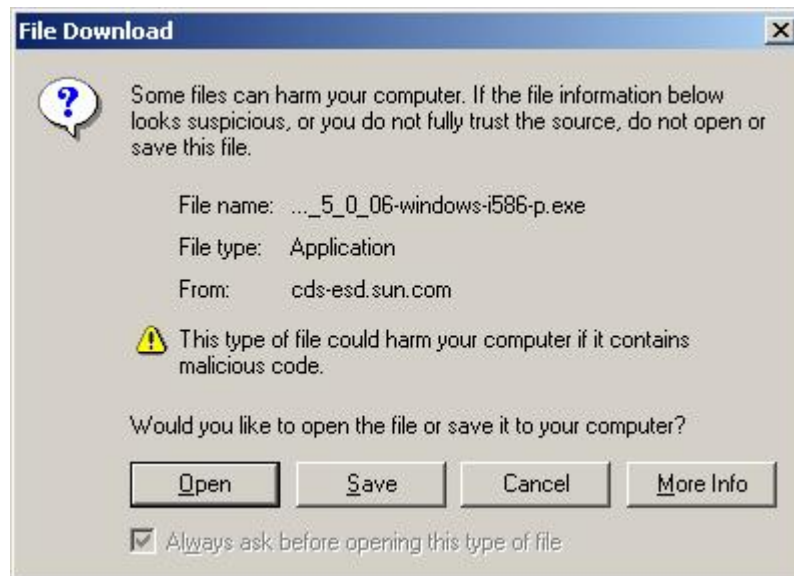
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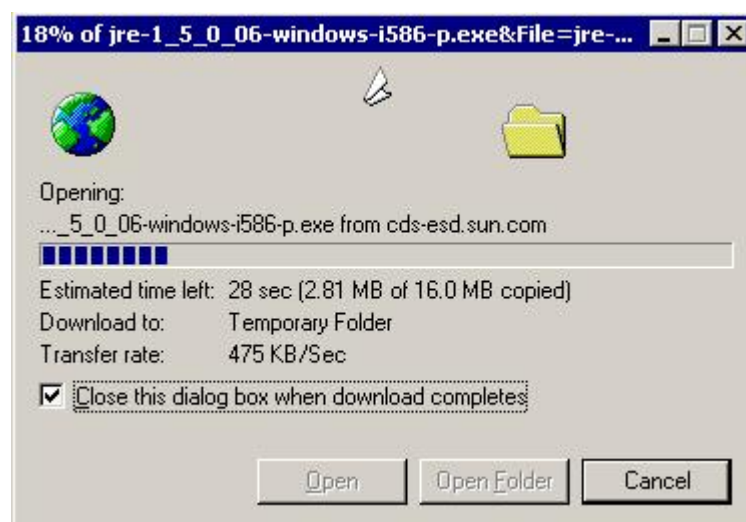
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i586-p.exe by using the left button of the mouse (in the end of row you can see size of the file 16,00 MB).

7. After clicking on the shortcut the window for downloading the install file is shown. It's necessary to click on the **"Open"** button:



8. In the dialog window you can see the downloading process:



Installation of Sun Java:

9. After downloading the Java installation file the window for installation is shown. It's necessary to click on the **"Run"** button:

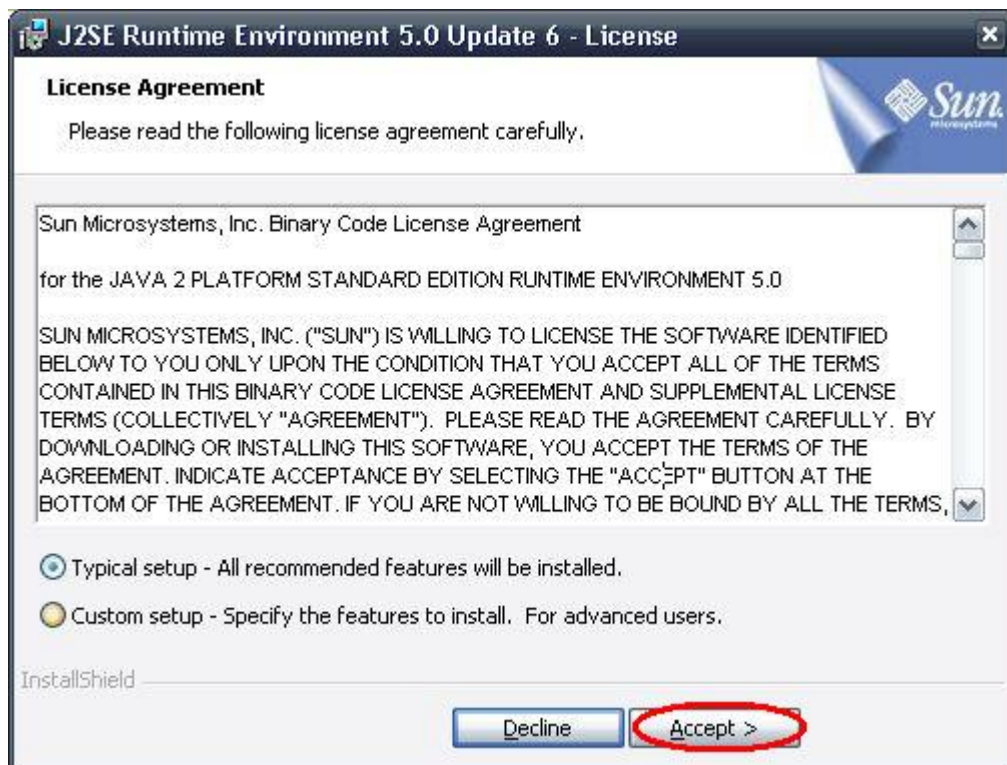


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10. After a while the installation begins automatically and a **License agreement** window is shown. It's necessary to choose "**Typical setup...**" and then click on the "**Accept**" button:



11. Then the installation process window appears. For finishing the process it's necessary to click on the „**Finish**“ button



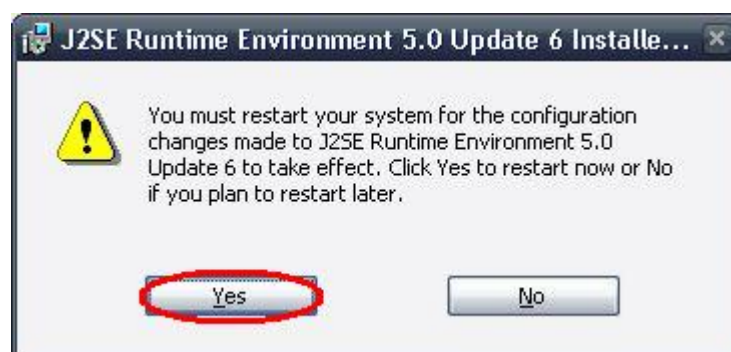
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12. When the installation is finished the requirement of restarting the system can appears. If yes, click on the „Yes“ button to restart the computer.



13. The installation is typically done into the system drive (usually C:\, in the next text is termed like **system_drive**) into directory **Program Files\Java\jre1.5.0_06** (in the next text just **Java_dir**).



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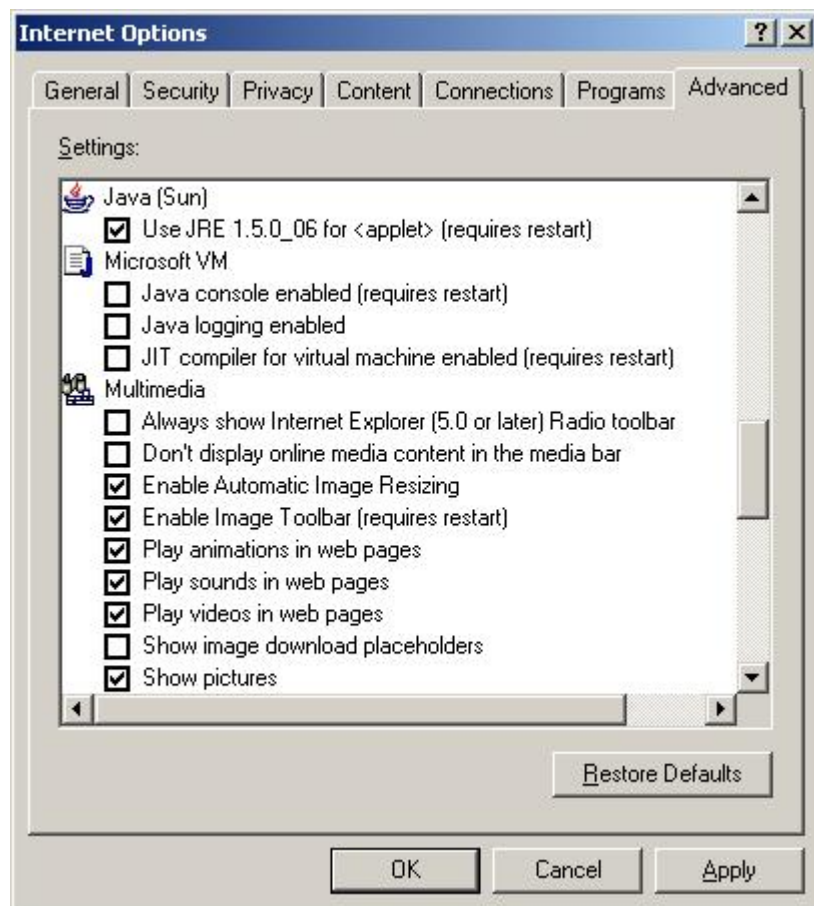
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2.6 Internet browser settings

The OTE web interface makes intensive use of components that can be launched from the web server. This involves Java programmes, also known as applets, which have previously been signed by OTE so that the browser can verify their authenticity and thus be sure that the launching of such programmes will not cause any security problems. In order to launch the applets, the browser must be configured in the following manner:

- Sun Java, which is the launching environment for the applets, must be installed and activated. In a default Internet Explorer installation, the JVM is installed and activated automatically. It's necessary to change it. In order to verify its correct activation, it is necessary to proceed according to the following steps in the browser menu.

Tools → Internet options... → Advanced



- Nested item „**Use JRE 1.5.0_06 for <applet> (requires restart)**“ (in case you have the higher version of Sun Java application, your version is mentioned here) has to be chosen, if not, choose it. If „**Microsoft VM**“ items are chosen, unclick all of them. After that use the „**Apply**“ button and then click on the „**OK**“ button



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- It is necessary to add the WEBSIOM website among the *Trusted sites*. You can do it through internet browser menu: *Tools – Internet options – Security – Trusted sites*
- Close all windows of the Internet Explorer application.

The browser must allow for the downloading of signed applets. For this purpose, it is enough to select the *Medium* security level in the *Internet* zone, which is the preset security configuration when installing the Internet Explorer programme. In order to check this configuration, the following steps must be taken in the browser menu:

Tools → Internet options... → Security

Select the *Internet* zone in this window and activate the *Medium* security level. In the event that the OTE Web Site is included in the zone of *Trusted sites*, this zone must have a *Medium* security level set.

The stated security level suffices for the majority of secured web servers. It thus allows for the launching of read components, but only upon the user's approval.

Your company's policy may restrict You from modifying registry, however, **when downloading applets** (e.g. after implementing a new functionality) system stores information into the registry and **the current user must have registry access rights**. Afterward this right can be taken away (or the download can be done under user who has such rights).

- The browser must enable the use of cookies (small information elements that the server installs on the client's computer). The OTE web interface cookies are used solely for checking active sessions and cease to exist upon the end of a session.

After enabling cookies, select the *Medium* security level, as described in the point above.

If the security configuration of the client was modified due to the use of other applications or due to company security policies, we state below the **minimum selections**, which must be activated for the correct use of the system (only the required selections were described – those which are not described are not stated as they do not have an effect on the application). The values will be activated in the *Internet* zone, except in cases when the OTE Web will be integrated into other zones (*Local intranet*, *Trusted sites*, *Restricted sites*). In such event, these values would be activated in the respective areas.

Tools → Internet Options... → Security → Internet

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Microsoft VM	
	Java permissions
	☐ Custom
	☐ Disable Java
	☒ High safety ¹
	☐ Low safety
	☐ Medium safety
ActiveX controls and plug-ins	
	Script ActiveX controls marked safe for scripting
	☐ Disable
	☒ Enable
	☐ Prompt
	Run ActiveX controls and plug-ins
	☐ Administrator approved
	☐ Disable
	☒ Enable
	☐ Prompt
	Download signed ActiveX controls
	☐ Disable
	☐ Enable
	☒ Prompt ²
Scripting	
	Active scripting
	☐ Disable
	☒ Enable
	☐ Prompt
	Scripting of Java applets
	☐ Disable
	☒ Enable
	☐ Prompt

¹ This level has the highest restriction level, which allows for the functioning of the application

² Necessary so that the user records applets to the client station right when he enters the application



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Downloads	
	Automatic prompting for file downloads
	☐ Disable
	☒ Enable ³
	File download
	☐ Disable
	☒ Enable ⁴

2.7 Sun Java settings

For the right working of Sun Java application it is necessary to change some settings of this environment. Do following steps:

- Open **Java Control Panel** through menu „**Start -> Control Panel -> Java**“ and switch to the **Advanced** folder:

³ Necessary for recording a file of day-ahead market bids, of realizations of bilateral contracts, of intra-day market bids and of balancing market bids

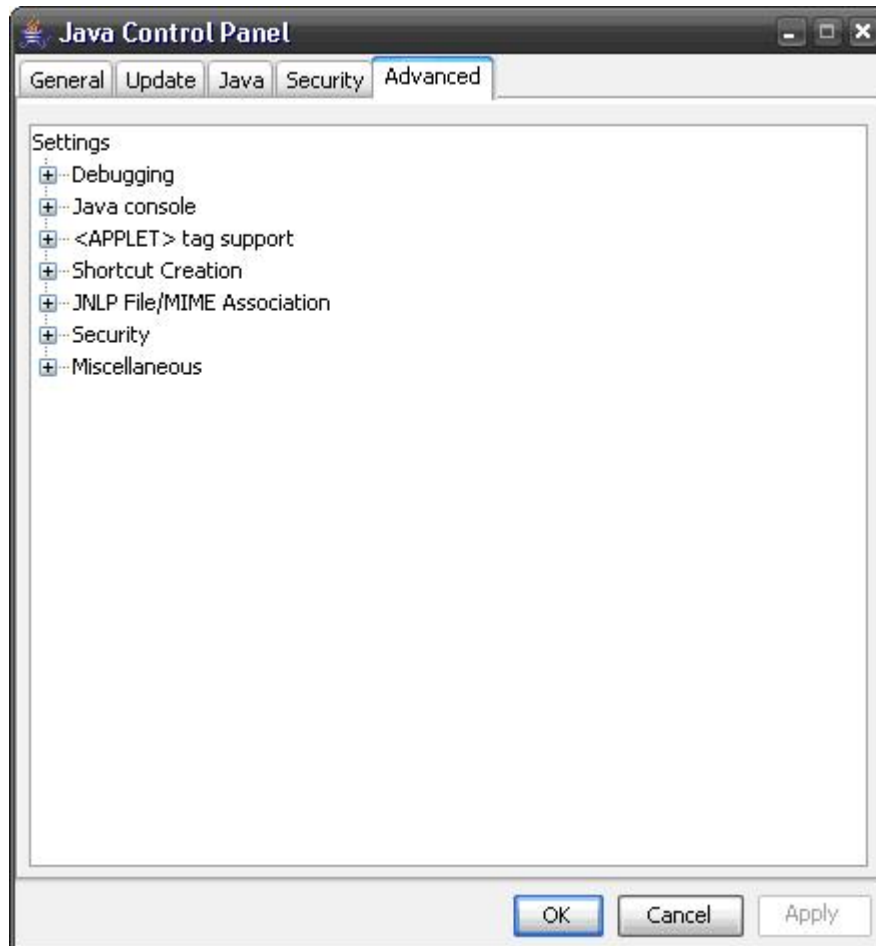
⁴ Necessary for recording a file of day-ahead market bids, of realizations of bilateral contracts, of intra-day market bids and of balancing market bids



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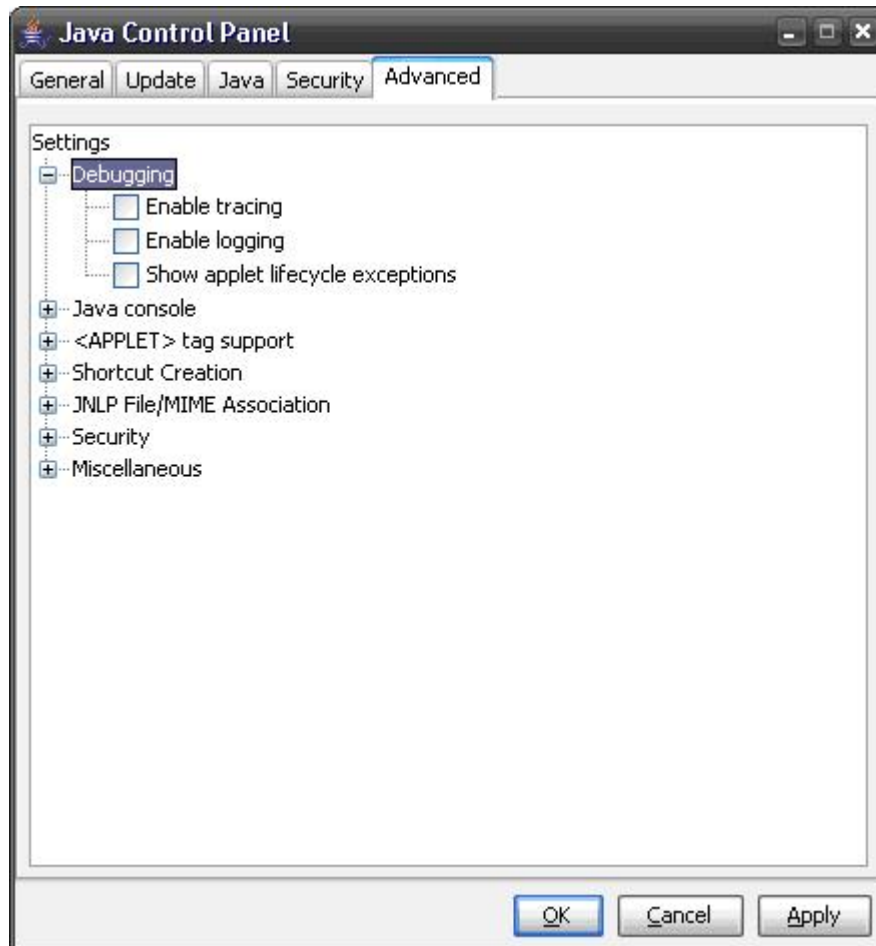
- Open the **Debugging** group and make sure, that none of the items of this group is chosen. If yes, deactivate it.



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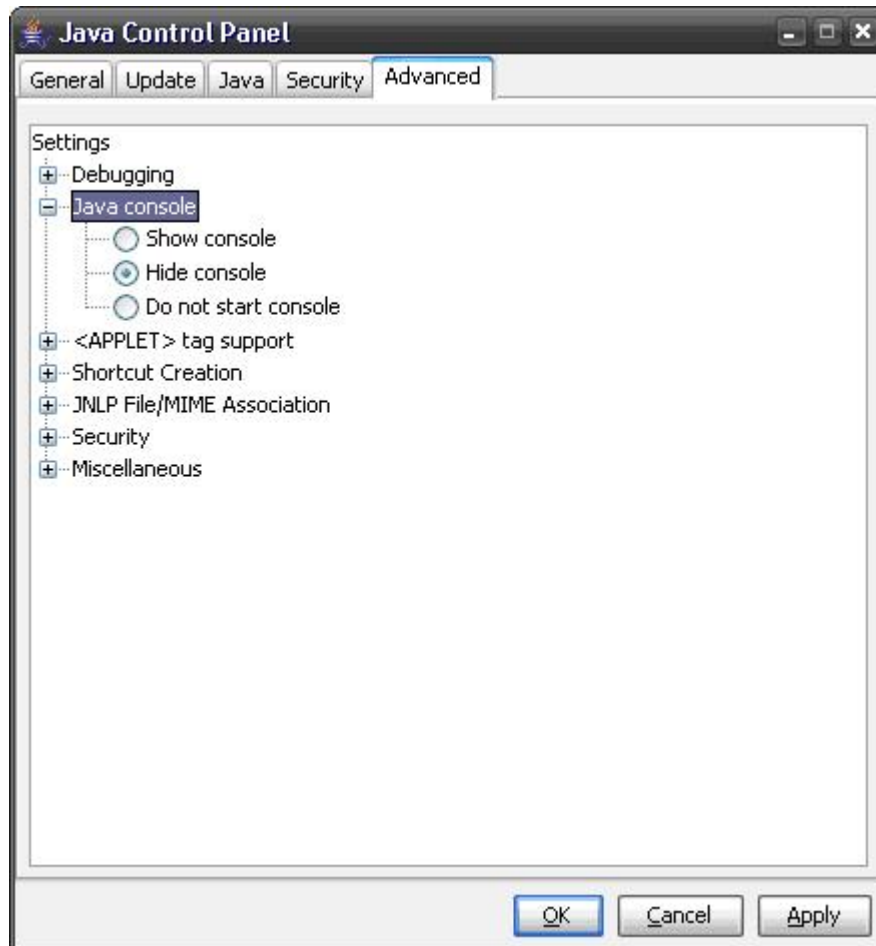
- Open the **Java console** group and check, that the **Hide console** is chosen. If not, choose it.



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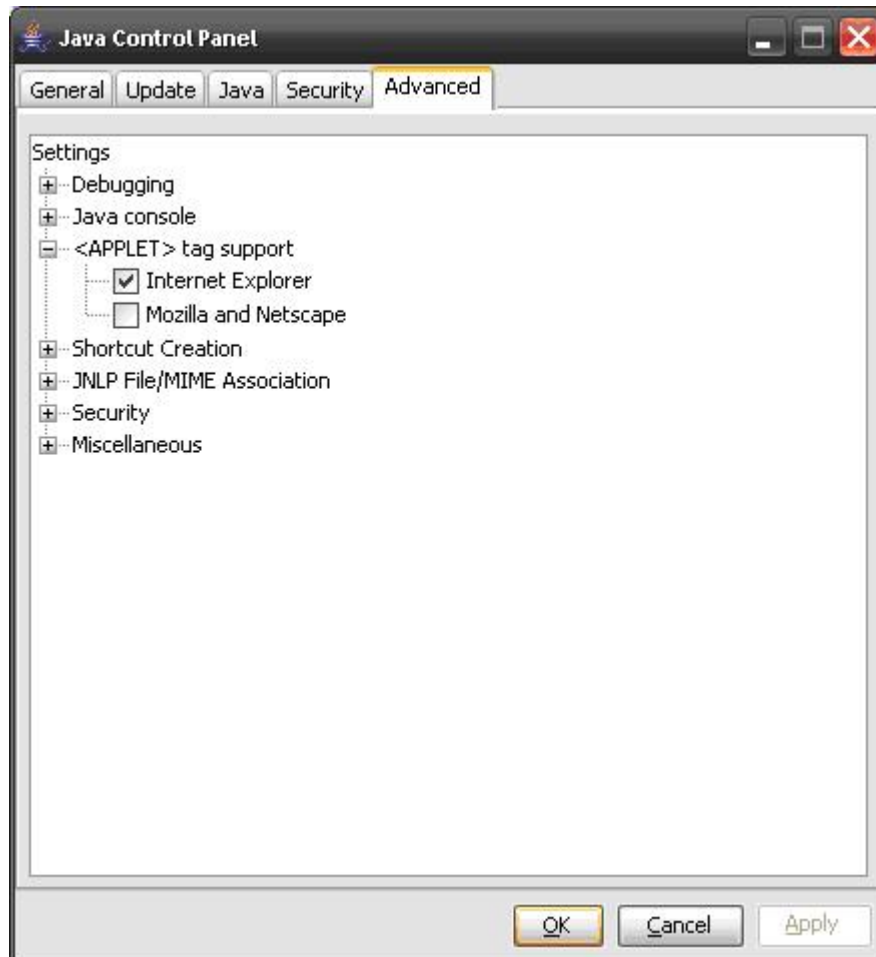
- Open **<Applet> tag support** group and check, that just item: **Internet Explorer** is activated



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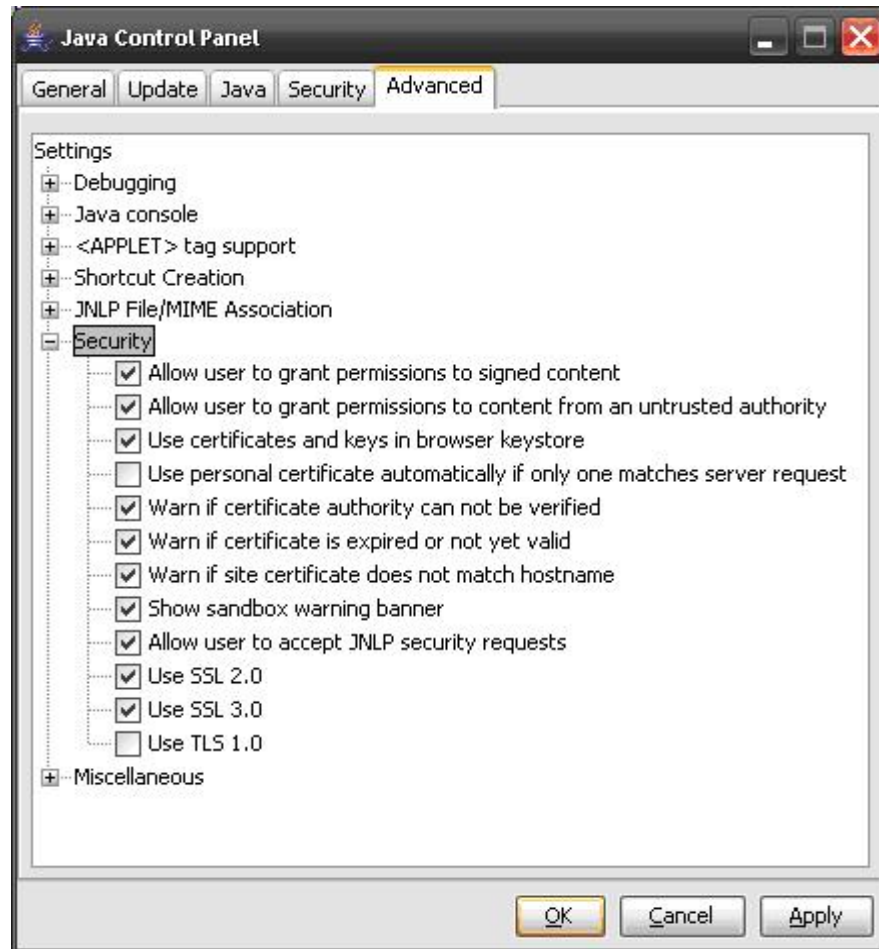
- Open the **Security** group and check, that all of items are chosen except two of them: **Use personal certificate automatically if only one matches server request** and **Use TLS 1.0**. If these items are activated, deactivate them.



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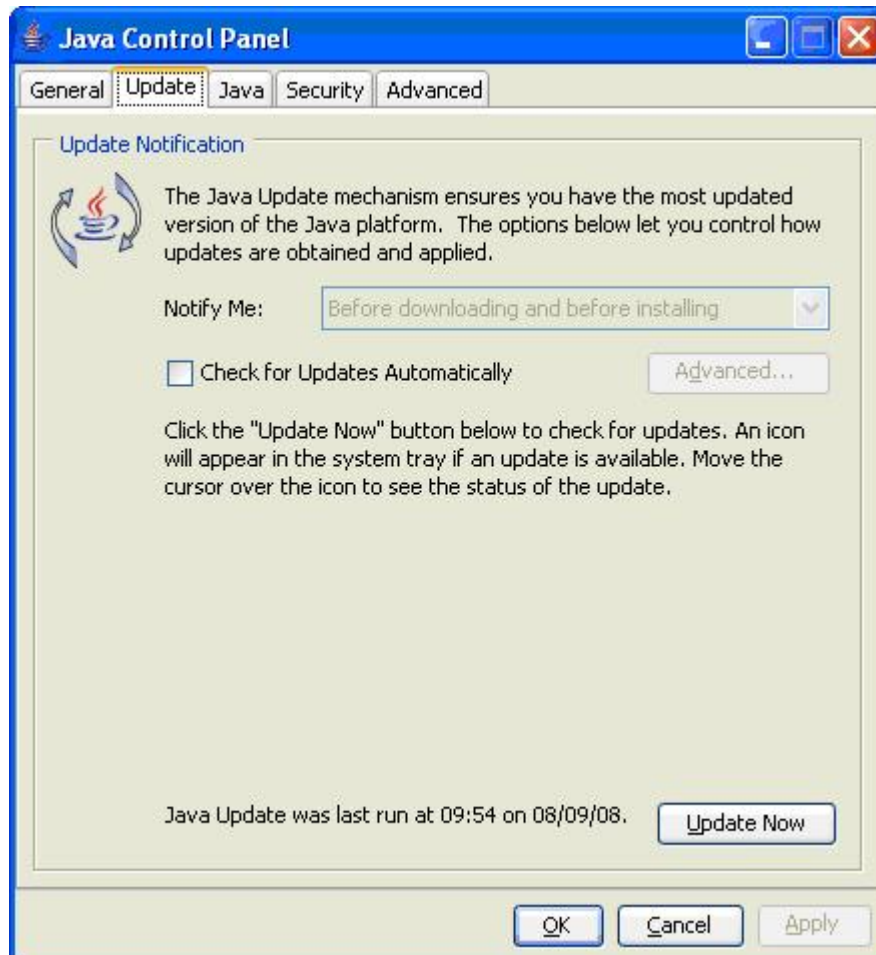
- It is necessary to disable the automatic downloading of updates of the Sun Java application. You can do it through „**Control panel – Java**“. Choose „**Update**“ and unclick the field „**Check for Updates Automatically**“, look on the picture. Then click on the “**OK**” button.



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2.8 Installation of certificate and others security settings

For the right functioning of the new applets the certificate OTECA installation is needed. You can download it from the OTE website. This certificate must be stored in the directory of trustable authority of the Java Runtime Environment, which you have installed in chapter 2.5. Do the following steps:

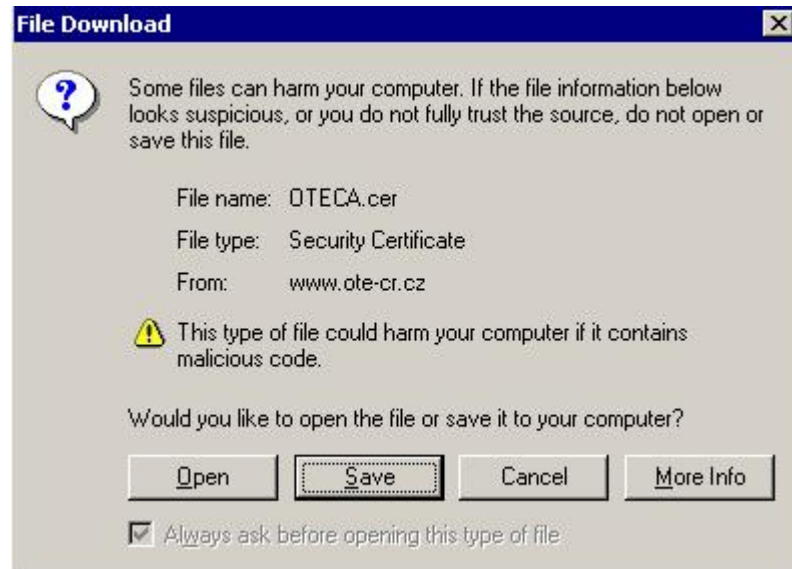
1. From the OTE website (http://www.ote-cr.cz/the-participants/registration-procedure/installation-procedure-logicacmg/installation-procedure-logicacmg/?set_language=en) download the OTECA certificate - „**The OTECA authority certificate (DER format)**“ and save it into the root directory on system drive (usually c:\) - After clicking on the certificate the window for saving appears. Click on the „**Save**“ button and save the certificate into the root directory of the system drive.



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2. Download following file from OTE web page http://www.ote-cr.cz/the-participants/registration-procedure/files-installation-procedure-sun-java/Certificate_Import.bat **Certificate_Import.bat**. Store the file in the root directory on your HD, e.g. **c:\ drive**
3. Run **Certificate_Import.bat** file from a root directory (**c:\ drive**). The certificate is successfully installed on your workstation now.
4. If this procedure has not completed successfully please follow instructions, which can be found in appendix B (just in case that automated install failed).

Note: Users who have MS Windows 2000 installed on their computers have to use the process from the appendix B!

2.9 Setup of rights

It is necessary to install .java.policy file. This file sets rights of the CS OTE system to write all the data about the user's activities in the CS OTE system into the log file. It is possible to use this log file to solve some user's problems with the system. The **.java.policy** file allows insert bids through files on those markets, on which this functionality exists. The new Sun Java policy sets special rules which define your access to the local drives (for the safety reasons). In order to access your local drive (e.g. if you want to submit a bid) you are required to set up these access via .java.policy file. Otherwise the system refuses this file. The rules defined in **.java.policy** file allow to Sun Java technology the access into the directory „c:\ote“, from which you can insert your bids through files.



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1. Download following file from OTE web page <http://www.ote-cr.cz/the-participants/registration-procedure/files-installation-procedure-sun-java/.java.policy> – **.java.policy**.
2. If the **.java.policy** file already exists in „c:\Documents and Settings\user_name“, where „user name“ means folder of a current user (the user who is going to use IS OTE system), it is necessary to copy the content of the **.java.policy** file you have just downloaded into your existing **.java.policy** file. If the **.java.policy** file doesn't exist on the client's station, store the file in the following directory: „C:\Documents and Settings\user_name“. It is necessary to save this file exactly as **.java.policy**, without another suffix like txt or other. If the file has different name, it is necessary to rename it manually.

The Internet Explorer is ready for the first launch of WEBSIOM applications with SUN Java applets (1.5.0_06), or higher version.

2.10 Trouble shooting

This chapter describes cases, which can occur despite of the right installation and configuration of the Sun Java application.

2.10.1 Applets download

If the Sun Java application is installed correctly, the internet browser has the right configuration and the other configuration is done correctly, but in spite of that the WEBSIOM application applets are not download, it is possible that the downloading of these applets wasn't right. In this case do following steps:

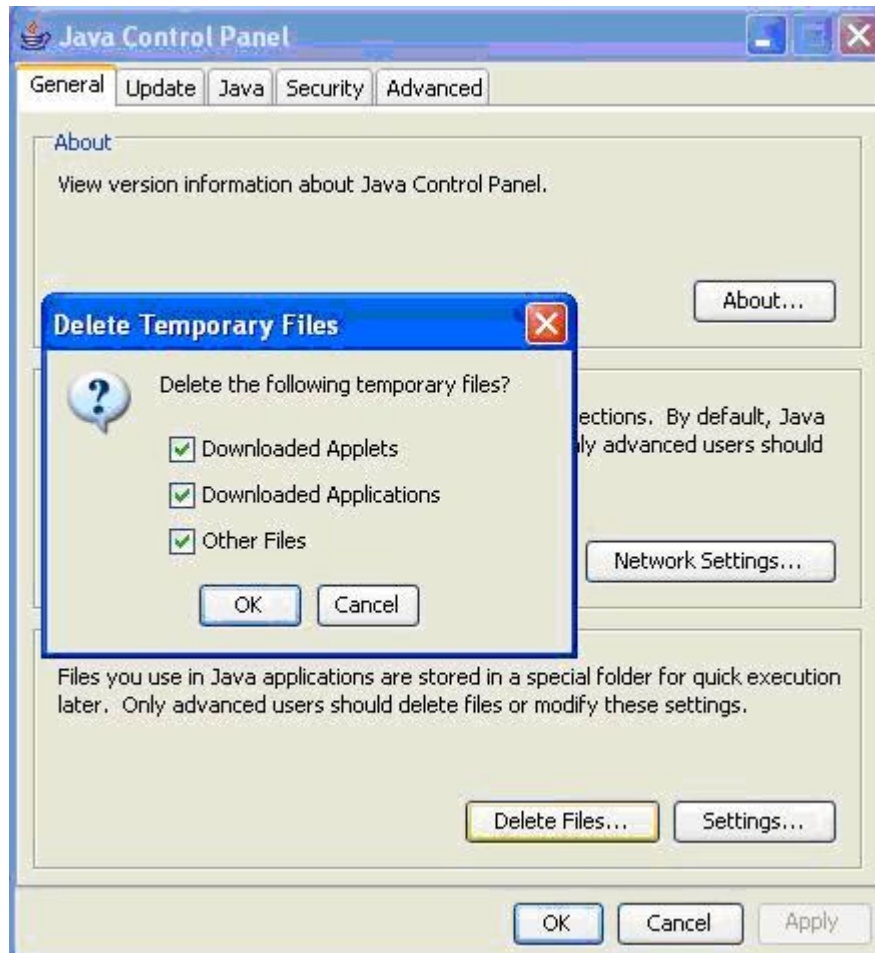
1. Open the window Control Panel – through the menu „**Start – Control Panel**“
2. Click on the **Java** by the right button and choose „**Open**“. „Java Control Panel“ is opened.
3. In the tuck „**General**“ click on the button „**Delete files** “



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4. The window „Delete Temporary Files“ is opened, in which it is necessary to choose all items. After that click on the button „OK“.
5. Then in the „Java Control Panel“ window click on the button „OK“.

After this run the internet browser and open the WEBSIOM application website. Now the applets are right downloaded.

2.10.2 The installation of updates of Sun Java application

If the updates or new version of Sun Java are installed, it is recommended to uninstall these updates or new version:

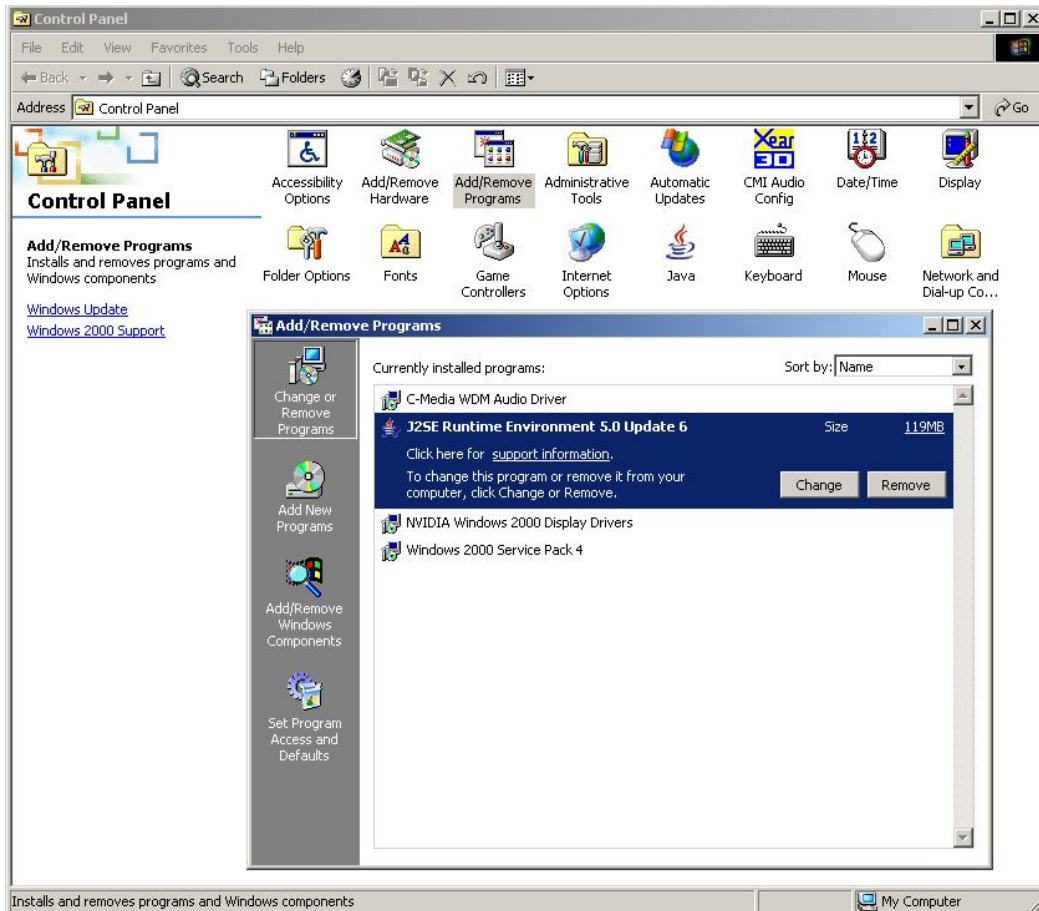
1. Through the menu „**Start – Control Panel – Add/Remove Programs**“ look at the list of installed programs of your computer.
2. In the list find Sun Java application items.
3. Choose update which is higher than the one set for the WEBSIOM application and choose „**Remove**“.



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4. Confirm uninstalling of this update.
5. Restart the computer.

If there is requirement for keeping of updates or new version of Sun Java application it is necessary to repeat all steps in chapters 2.6, 2.7 and 2.8. Then it is necessary to restart the computer.

2.10.3 Protected/unprotected items

If the window of protected and unprotected items is shown during your work with WEBSIOM application, it is possible to switch it of:

1. Through the menu **"Tools – Internet Options – Security – Internet – Custom Level"**.
2. Find the item **"Miscellaneous - Display mixed content"** and choose **"Enable"**.
3. Click on the button **"OK"**.

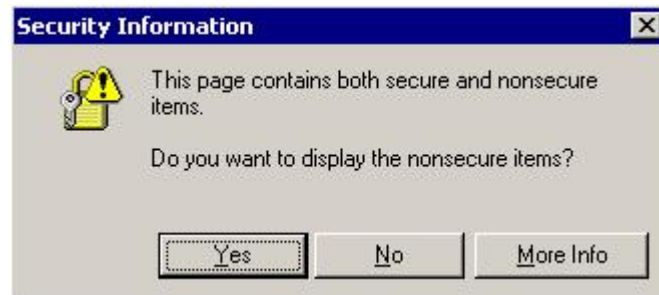
Then the window will not be shown any more.



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2.10.4 Internet browser shutting down

If the internet browser is shutting down when you enter the WEBSIOM application and the file *.log is saved on the desktop in spite of the installation of Sun Java is right, the configuration of internet browser is right and other configuration is exactly according to this manual, do following steps to install the actualization of the Internet Explorer for MS Windows XP Service Pack 2 (KB912812).

1. Open the website
<http://www.microsoft.com/Downloads/details.aspx?FamilyID=f05ffb31-e6b4-4771-81f1-4accebf72133&displaylang=en>
2. First choose the language of the Internet Explorer on the bottom of the window. Then click on the button “**Download**”.



3. The dialog window appears. Choose the button “**Open**”



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4. After downloading the file another window appears. Click on the button “**Run**”:
5. Then the window of installation appears. Click on the button “**Next**”.
6. The window of Licence agreement appears. Choose „**I agree**“ and click on the button „**Next**“.
7. For finishing the installation of the actualization click on the button „**Finish**“ and restart the computer.

After successful installation you can delete the file *.log.

2.10.5 Others problems

If you have any others problems with Sun Java applets which are not described above, try to download and install all actualizations for your operating system.

For installation of updates use following steps:

1. Choose the menu „**Start – Windows Update**“
2. On the website of the Microsoft company choose the installation of updates for your computer. Use the button “**Express**” (recommended). The possibility „**Custom**“ means you choose which updates you want to install.



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Welcome
to Windows Update

New! *Get Microsoft Update today!*



Keep your computer up to date

Check to see if you need updates for Windows, your hardware or your devices.

Express

Get high-priority updates **(recommended)**

Custom

Select from optional and high-priority updates for Windows and other programs

Concerned about privacy? When you check for updates, basic information about your computer, not you, is used to determine which updates your programs need. To learn more, see our privacy statement.

3. Click on the button „**Download updates**“
4. If you first need to install the Windows Update application, than after clicking on the „Windows Update“ choose installation of this application.
5. After finishing the updates will be found and you can install them on your computer.



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3 SYSTEM ENTRY PROCESS

3.1 User's personal certificate

To enter the system you must possess a personal digital certificate (authentication certificate) issued for this purpose by an independent authority supported by OTE. The medium for the certificate is a smart card or a USB token. In order to use the smart card, you must have a card reader connected to the client station, or have the respective USB port driver installed.

When entering the system, the Internet browser will check whether the certificate is acceptable for the web server and will display it to the user in order for the user to confirm its use. Using the certificate, the user is identified in the system and thus also the market participant who the user represents.

3.2 OTE certificates

The server automatically verifies the authenticity of the certificate and its validity. The Internet browser also checks the authenticity of the web server based on the certificate issued for the server. The server presents the certificate to the browser.

Upon the first entry into the system through the browser, the browser does not regard the presented certificate as data issued by trusted subjects. For this reason, the browser will display a confirmation window after which the user can continue in the process.

In order to prevent the displaying of this message and in order to simplify the ensuing applet operations, the OTE master certificate must be installed into the browser (which introduces the certificate subject of OTE and which also guarantees the certificates issued to users, web server certificates and the certificate for the signature of applets).

In the event that the OTE master certificate is not installed, the user must confirm the entry process upon the first entry and thereafter open installation help and install the certificate.

3.3 Installation of encryption modules

Upon the first entry into the system, the automatic installation of CAPICOM components from Microsoft will take place, which provide encrypting functions for the user's computer, allowing for the utilization of digital signature of data sent into the system. The procedure is automatic and displays only notification on the downloaded package, which is digitally signed by Microsoft.



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In the event that the CAPICOM installation does not run automatically in the background, the application will notify the user of this fact when attempting to sign sent data.

In such case, it is possible to download the package either from the Microsoft website or from the ftp server of LogicaCMG: <ftp://ftp.logica.com/pub/OTESupport/CAPICOM/capicom.cab>. The capicom.cab archive contains two files - capicom.dll and capicom.inf, which must first be extracted from the archive. Installation takes place by right-clicking on capicom.inf and selecting *Install* from the menu item. This can only however be performed by a user with an administration account.

3.4 Entering the data through the file

Thanks to the Sun Java settings there are changes for entering the data through files (entering bids, accepting bids, entering realizations) **It is necessary to load the file from the system drive (usually C:) from the folder Ote**. This is needed, when you use entering fines through menu:

IM and BM – Bid submission – Via file

IM and BM – Notice board – Via file

Day-ahead market – Bid submission – Via file

Bilateral contracts – Data submission – Realization via file

has to be saved on the system drive (usually drive C:) in folder **Ote**. If the file is loading into the WEBSIOM application from other place, the operation will be not successful.



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3.5 Opening window

When entering the system, the following window will appear:



Firstly, the user should select the preferred language of communication in the system by clicking on the flag at the bottom left side of the window. This window is the only window in the system where the preferred language can be selected.

The options available in this window are as follows:

- **Modification:** Information on the last changes carried out in the system.
- **Help:** Help on individual parts of the system.
- **Enter:** Entry into the main menu of the application.

3.6 First login

At the very first login after installation SUN Java (after a user has chosen an authentication certificate) the entry (blue) page is shown. This is automatically followed by a pop-up window requiring certificate for SUN Java applet verification (use identical certificate as for authentication). This opening of the certificate window can take several seconds, it depends on



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the Sun Java startup speed. It is necessary to wait for it, otherwise the WEBSIOM application stay on the main page.

Based on technological requirements the certificate is required twice. This verification is independent from the user's authentication and must be done.

The procedure must be done every time after downloading a new version of applets.

3.7 Subsequent login

At every other login the SUN Java applet verification is required just once. This verification is independent from the user's authentication and must be done.

This opening of the Sun Java certificate window can take few seconds, it depends on the Sun Java startup speed. It is necessary to wait for it, otherwise the WEBSIOM application stay on the main page.

3.8 Reading of applets

3.8.1 Confirmation of reading and launching of applets

By clicking on *Enter* on the opening page, the main menu for the system will open.

There are three active applets active in this window, two of which are visible (quick access panel and the upper bar of the window), and the third is not visible (records user activities into a local log file). As stated above, these applets are signed by the same certification authority that represents OTE and must thus be installed into the Internet browser as a trustworthy issuer. If this is done, the browser will open a window before showing the main menu, in which the user must confirm the reading and launching of applets.



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It is also necessary in this window to select *Always run software from ...* (this option will not be available if the OTE master certificate was not previously installed). If we do not wish this window to appear when entering the system in the future, this option must be checked.



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3.8.2 Automatic updating

The automatic installation of some systems applets onto the local disk will take place when first entering the application. When entering the main menu, the applet for the quick access panel and upper window bar will be installed. Automatic installation will again take place when first launching the consultation applet.

The installation process is automatic and can be monitored in the following window, which automatically deactivates after each applet reading is completed.



In the future, the Internet browser will repeat this fully automatic process only when updating applets.

3.8.3 File structure on the local disk

The structure of information which the Internet browser updates on the client station in the systems directory is as follows:

- *C:\WINDOWS\Downloaded Program Files*
The folder contains records of ActiveX controls.
- *C:\WINDOWS\JAVA\lib*
Various sub-directories are created in this folder, which contain the required modules and libraries located on the local disk.

The stated directory structure and the contents thereof may not be manually modified by the user or station administrator. When the stated folders are damaged or any other errors found, which would cause the applets to function incorrectly, the problem must be solved using the following procedure:

- Close the open Internet browser on the client station.
- Remove all input pertaining to *Applet Consulta 1.0.0.6*, *MenuDinamico 2.0.0.5* and *Applet Superior 1.0.0.4* (version numbers can change in the future) from the directory *C:\WINDOWS\Downloaded Program Files*.
- Remove the following sub-directories and folders from the directory *C:\WINDOWS\java\lib*:
 - \borland
 - \com
 - \images
 - \jclass



- \MenuDinamico
 - \netscape
 - \OM_Consultas
 - InterfazSiom.class
 - siomCli.class
- Repeat connection to the OTE web interface. The new, standard, reading of applets will appear.

The stated operations must be performed by a user with administration rights to the client station.



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3.9 Main menu

After the applet reading process, the following main menu for the system will open up:



The ensuing chapters detail each of the main web areas.



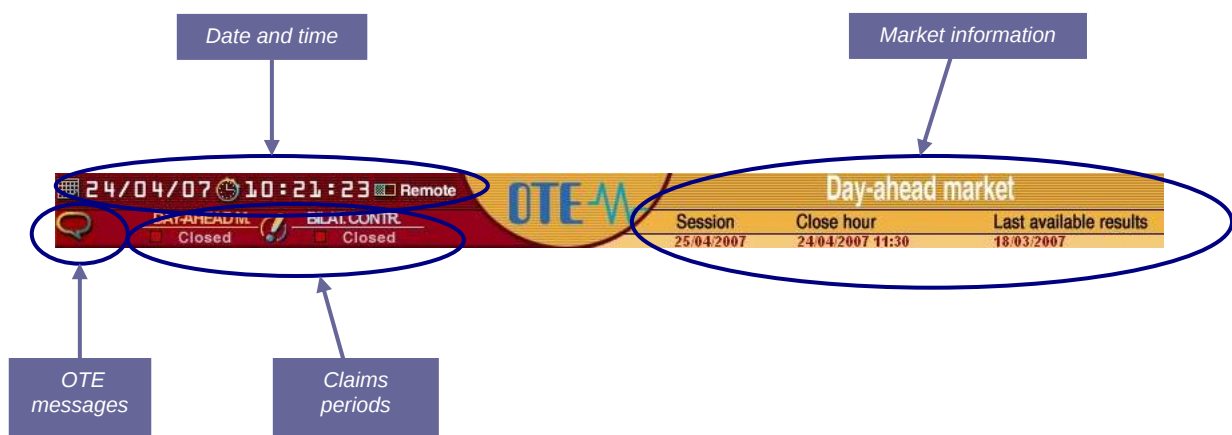
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4 UPPER BAR OF WINDOW

The upper bar of the window shows information on the current date and time, as well as other relevant data on the markets and accepted claims.

The upper bar appears as follows:



Information accessible on the upper bar:

- *Date and time* – the current date and time.
- *OTE messages* – an indicator showing the existence of active OTE messages for market participants.
- *Claims periods* – information on market claims periods and on the existence of urgent claims. Includes information on day-ahead market claims and bilateral contract claims. This information is detailed in the user manual entitled *Claims*.
- *Market information* – dynamic information on the day-ahead market, bilateral contracts, intra-day markets and balancing market by web sections which the user is in. This information contains the date of the next session, the date and time of session closing and the date of session with the last available results for the daily market and bilateral contracts, as well as the date and time of the closest trading hour closing on the intra-day and balancing markets. This information is detailed in the user manuals entitled *Day-ahead Market*, *Bilateral Contracts*, *Intra-day Market* and *Balancing Market*.

4.1 Information on time and date

The upper bar of the window shows the current date and time of the WEB server (indicated by the attribute *Remote*). The synchronisation of minutes and seconds takes place when connecting to the WEB server, while the hour and date is selected from the local station. Hour or date synchronisation takes place upon the changing of hours or date on the WEB server. If connection to the WEB server is not possible for any reason and its time cannot be determined, then the time

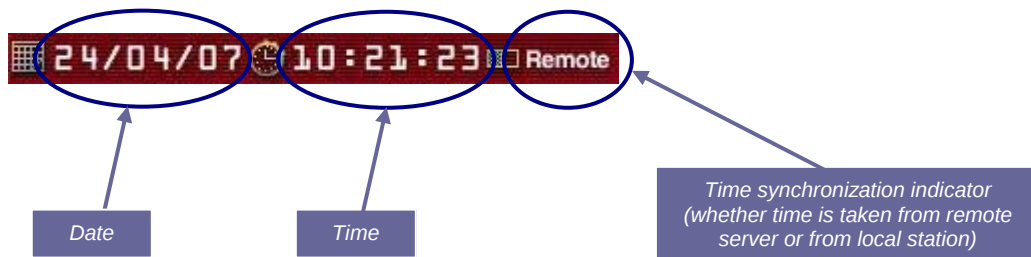


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of the local station will show in its place (indicated by the attribute *Local*). This can be seen in the following figure.



4.2 OTE messages

The indicator showing the existence of OTE messages for market participants is located on the upper bar and has the following appearance:



if there is no active message pending.



if there is an active message pending.

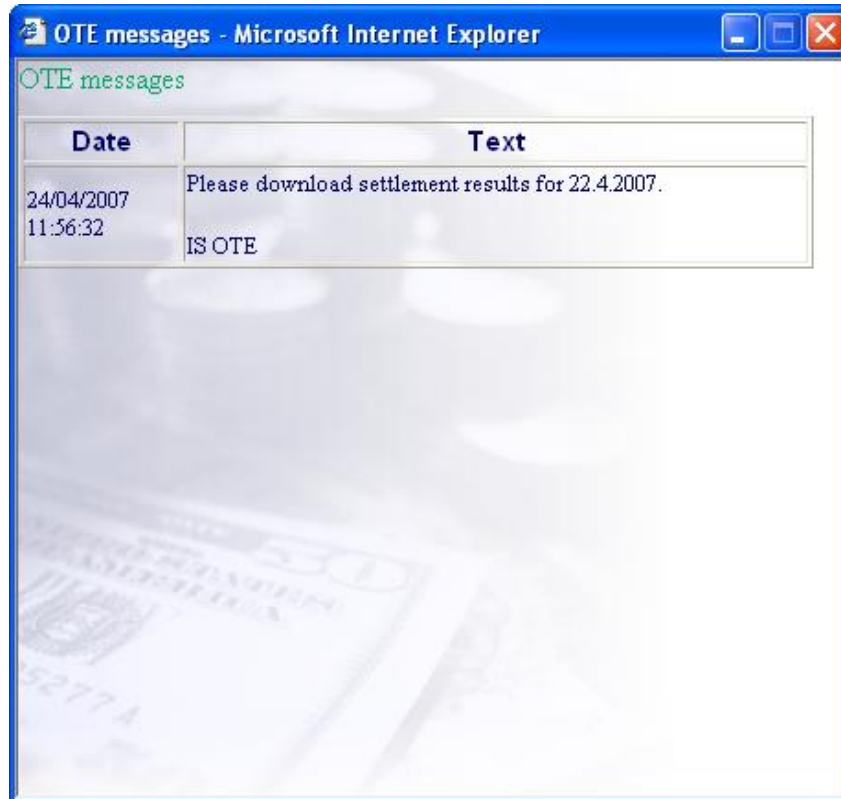
The message contents appear when clicking on the icon.



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If there are active messages pending, a window will automatically appear with the messages when entering into the system. If the user is already in the system, the window will appear automatically upon the activation of new messages. When messages become inactive (are read), the icon stops flashing.



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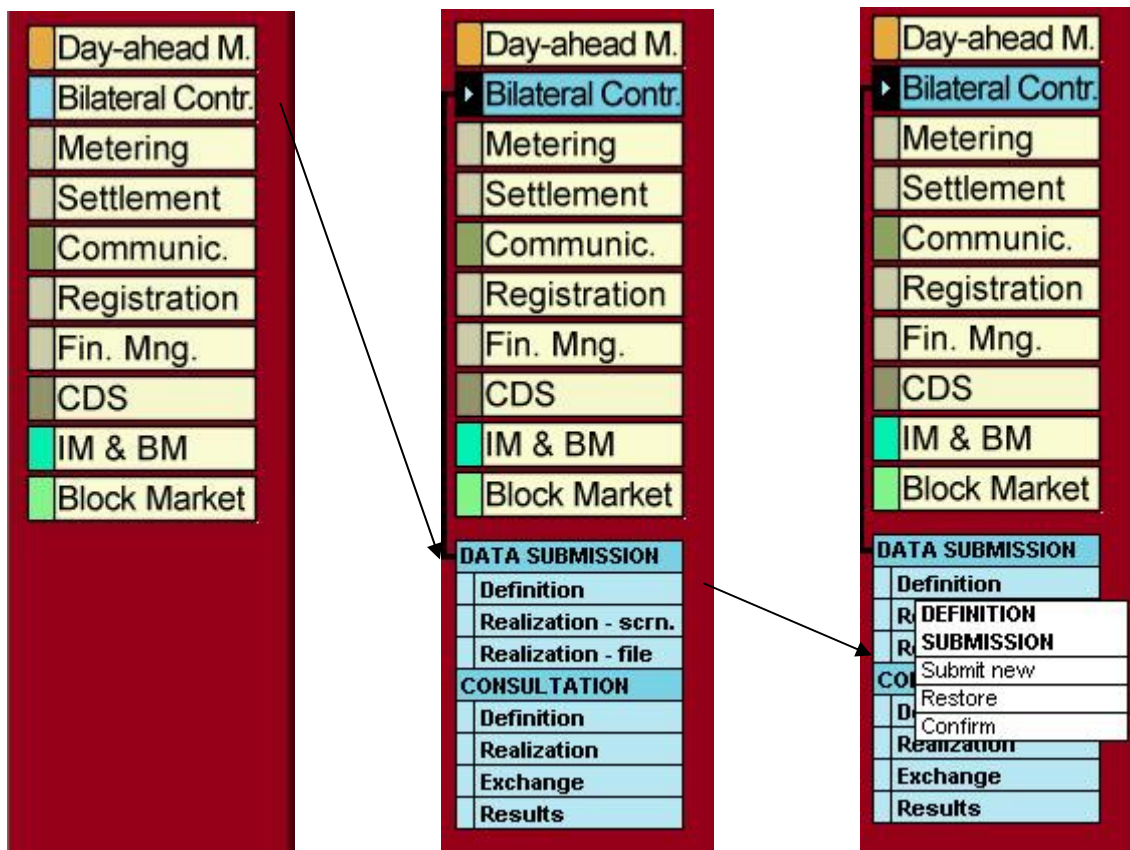
5 QUICK ACCESS PANEL

This panel allows for quick access to the main application options. When connecting to the OTE application, a main menu will appear on the left, showing the opening options.

For access to the menu column options, click on the option of your choice in the main menu. The respective options of the menu column will appear.

After the displaying of the dynamic menu from the main menu or menu column, we can see that, in both cases, the respective page opens in the centre of the window for each option. The upper bar of the window also shows updated information according to which section of the Web the user is moving about in.

By moving the mouse along the column menu options, a submenu rolls out, if defined.





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6 CONSULTATIONS APPLET

This applet provides a range of functions for consultations. The main menu or quick access panel can be used to access this applet.

The standard Windows window will appear when launching the consultation applet. The applet window will appear in a new window in the Internet browser, i.e. more consultation applets can appear at once.

The screenshot displays the OTE (Operador del Mercado de Electricidad) web interface. The main menu on the left includes options like Day-ahead M., Bilateral Contr., Metering, Settlement, Communic., Registration, Fin. Mng., CDS, and IM & BM. The 'CONSULTATION' section is highlighted, showing sub-options for Definition, Realization, Exchange, and Results. The 'Realization' window is active, showing a table of BC realizations by trading day for 21/04/2007. The 'Aggregation by market participants' window is also open, showing a table of aggregation results for 21/04/2007. The table includes columns for FMP ID, Trading day, Type, Description, and Hourly values (Hour 01, Hour 02, Hour 03).

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The contents of this window differ for each consultation, but the structure always remains the same:

The screenshot shows a web application window titled 'Valid implicit BC realizations - Microsoft Internet Explorer'. The interface includes a title bar, a header area with the title 'Valid implicit BC realizations', and a main content area. The main content area contains a form for search parameters, a table of results, and a footer with navigation and action buttons. Annotations with arrows point to various elements:

- Consultation name:** Points to the title 'Valid implicit BC realizations'.
- Consultation parameters:** Points to the 'Date from' and 'Date to' input fields.
- Column names:** Points to the header row of the table.
- Filters row:** Points to the first row of the table.
- Execute button:** Points to the 'EXECUTE' button.
- Tabs:** Points to the 'Main' and 'Cancelled trading days' tabs.
- No. of records:** Points to the 'Records : 2 / 2' text.
- Message row:** Points to the 'Query results' text.
- Action button:** Points to the 'ACTION - RECORD' button.
- Results area:** Points to the table of results.

	Definition ID	Realization ID	Version	Seller	Buyer	State	Replaced	Suspended	Co
F f-1									
1	2220	74399	5	116	131	Valid	No	No	
2	2216	74412	2	114	116	Valid	Yes	No	

After filling in the search parameters for the consultation (i.e. participant identification, trading day, etc.) and after clicking *Execute*, the results will appear (the applet will check the entered parameters and acquire the data to be displayed, or will notify of any potential error). This method allows one to change parameters and obtain new results without having to leave the consultation applet.



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The following window is an example of consultation conducted.

Valid implicit BC realizations

Date from: 01/01/2007 Date

Date to: 30/04/2007 Date

EXECUTE

	Definition ID	Realization ID	Version	Seller	Buyer	State	Replaced	Suspended	Ca
F	f-1								
1	2220	74399	5	116	131	Valid	No	No	
2	2216	74412	2	114	116	Valid	Yes	No	

FILTERS ACTION - RECORD ACTION - ALL RECORDS SAVE TO FILE PRINT

Records : 2 / 2

Main Cancelled trading days

Query results

The user can then arrange the results, filter them, print them, save them to file, etc. (specified in detail in ensuing chapters).

The consultation applet uses the same signature mechanism and writing to local disk as the other applets of the system and for this reason a reading window will open when first used or during subsequent updating.

6.1 Entering of parameters

After entering the parameters and clicking on *Execute*, the consultation applet will perform the validation of parameters. The following validations are taken into consideration:

- For date-type parameters, the format DD/MM/YYYY must be entered. For these parameters, the system will display an additional button *Date* next to the date field, enabling the opening of a calendar in which the required date can be comfortably selected.
- For numerical-type parameters, the correct number value must be entered. A comma must be used to separate decimal numbers.



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- For text-type parameters, the maximum length will be checked and these depend on the specific parameter and consultation (i.e. a maximum of 5 characters for the participant identification).
- No special validations will take place for parameters specified by a list of values.

Depending on the consultation, the '*' sign can be used as a replacement for some parameter types. If such possibility exists, the '*' sign is displayed on the right of the parameter.

6.2 Navigation between records

The first column of each record contains the sequence number of the record in the consultation table.

If the number of records exceeds the maximum display capacity in the window, a vertical bar will appear that can be moved up and down the list, as in any other regular Windows application.

The total number of records will be marked in the bottom left side of the window using a "X / Y" format, where X and Y are whole numbers. If filters were not used (see Chapter 5.5 - Filtering), then values X and Y will be the same and will indicate the total number of records displayed. If a filter was specified, then value X will indicate the number of records that were filtered and are given in the consultation results, while value Y will indicate the total number of records.

6.3 Column width

The column width, which is predefined for each column, can be modified using the mouse, by merely dragging the separating line between column names (as in many other Windows applications).

If the total width of the column exceeds the applet window size, a horizontal scroll bar will be activated.

6.4 Sorting

In order to modify the order in which records are displayed in the consultation results, the user can use the column sorting option.

In order to arrange a column according to values, click on its name.

If the user clicks on a column header once, the records are sorted in ascending order according to their values in the columns. When clicking again on the same column, the sorting process is repeated and the records are sorted in descending order. By clicking again on the column name, the records are again sorted in ascending order.

After sorting the first column, the user may wish to sort another column. Sorting by values in the first column is not affected, but the second column will be used as the second sorting criteria. When clicking again on the second column, the sorting criteria change (switching between

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descending and ascending order). Other columns can be added to the sorting criteria using the same method.

Information on the current sorting can be displayed using the *Filters* button and selecting *Show current sorting*.

The *Remove current sorting* button can be used for removing the sorting criteria, which will be displayed after clicking on *Filters* in the bottom part of the consultation window.

6.5 Filtering

Directly under the row with the column names, the user will find a row of filters with a field marked in the header with the letter *F*. On the right of this is a function for the selection of filters that is marked with the letters *f-1*, *f-2*, *f-3*. This allows for selection from three possible filter rows.

The user can specify various filters in one or more columns and thus reduce the number of records displayed to those that meet the users set requirements.

For the specification of filters, the following syntaxes will be used:

- **Comparison-based filters:** These work with all value types in the columns. Operators used: “=”, “<”, “>”, “<=”, “>=” and “<>”. Some examples are:
 - For alphanumeric values: “< ABC” (alphabetical comparison is used)
 - For numeric values: “> 2”
 - For date-type values: “<= 10/12/2003”
 - For time-type values: “>= 10:34:22”
 - For date and time type values: “= 10/12/2003 10:34:22”
- **Filters according to scope of values:** These work with all value types in the columns. Operators used: “BETWEEN” and “AND”. Some examples are:
 - For alphanumeric values: “BETWEEN A1 AND A9” (alphabetical comparison is used)
 - For numeric values: “BETWEEN 2 AND 10”
 - For date-type values: “BETWEEN 10/12/2003 AND 31/12/2003”
 - For time-type values: “BETWEEN 10:00:00 AND 11:00:00”
 - For date and time type values: “BETWEEN 10/12/2003 10:00:00 AND 10/12/2003 11:00:00”
- **Similarity-based filtering:** This works solely with alphanumeric type values and uses the “LIKE” operator and the substitution sign “%”. Some examples are:
 - “LIKE AB%” (values beginning with “AB”)
 - “LIKE %AB” (values ending with “AB”)
 - “LIKE AB%CD” (values beginning with “AB” and ending with “CD”)
 - “LIKE %AB%” (values containing “AB”)



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The filters do not distinguish between capital and small letters, with the exception of the operator “LIKE”.

The window showing a consultation with three defined filters is as follows:

BC realizations by trading day - Microsoft Internet Explorer

BC realizations by trading day

Date from: 02/04/2007 Date

Date to: 28/04/2007 Date

EXECUTE

	Definition ID	Realization ID	Version	Seller	Buyer	Implicit	Trading day	State
F f-1					<>131		>10/04/2007	=valid
1	2216	74413	1	114	116	No	16/04/2007	Valid
2	2216	74411	1	114	116	No	15/04/2007	Valid

FILTERS ACTION - RECORD ACTION - ALL RECORDS SAVE TO FILE PRINT

Save filter/sorting
Load filter/sorting
Remove filter/sorting
Remove current sorting
Show current sorting
Remove current filter
Show current filter

Filters results

When specifying filters, the filters can be combined in individual columns. There are several options available:

- To specify one condition for one column. The condition must be specified in the first row of filters *f-1* (appears automatically). After defining conditions and clicking on *F*, the application will display rows of all data whose value in the given column meets the required conditions.
- To specify various conditions for several columns in the table. These conditions must again be specified in the first row of filters *f-1* of each column. After defining conditions and clicking on *F* the application will display rows of data, whose values in these columns meet **all** the entered conditions (upon joint verification of conditions the operation AND is used).



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- To specify several conditions for one column (up to 3). These conditions must be specified in filter rows $f-1$, $f-2$ and $f-3$ (successively). After defining conditions and clicking on F the application will display rows of data, whose values in the given column meet **any** of the specified conditions (upon joint verification of conditions the operation OR is used).
- To combine the last two options in several columns, one or more filters were specified there. The result of a combination of filters is firstly the result of operation AND (all conditions must be met) between all conditions in each individual row of filters $f-1$, $f-2$, $f-3$. Subsequently, the operation OR is executed for whole rows of filters $f-1$, $f-2$, $f-3$ (the meeting of one condition suffices).

If the result of consultation does not correspond with the specified filters, the F button will turn red. The user must click on the button in order to update the results. After their update, the button will again turn green.

Information on the current filter can be displayed using the *Filters* button and selecting *Show current filter*.

To remove filters, erase its specification in filters row $f-1$, $f-2$, $f-3$ and click on F .

The *Remove current filter* button can be used to deactivate all filters, which will be displayed after clicking on *Filters* in the bottom part of the consultation window.

6.6 Saving of sorting and filtering criteria

For the specification of a combination of filters and criteria for sorting in a given consultation, the user can save his/her configuration for later use. Several configurations can be stored for one consultation.

Management of configurations:

- **Save filter/sorting:** After manual specification of filter selections or required sorting, the user must click on *Filters* → *Save filter/sorting*. The system will then request a brief description and the configuration will be saved.
- **Load filter/sorting:** The selection *Filters* → *Load filter/sorting* can be selected anytime after launching certain consultations and reading of data from the server. The system will display all configurations saved in the past for the given consultation, as well as the description which the user entered for each. By selecting the required configuration, its activation will take place.
- **Remove filter/sorting:** The user can, at any point, remove earlier defined configurations by clicking on *Filters* → *Remove filter/sorting*. The system will display all configurations saved in the past for the given consultation. After selecting some of these, the system will request a confirmation of operation. If the user confirms the operation, the selected configuration will be erased.



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- **Changing filter/sorting configuration:** After activation of filters/sorting, their configuration can be changed. By selecting *Filters* → *Save filter/sorting* the system will display the same description of the selected filter. If the user does not change this description, the filter/sorting will be saved in the modified configuration under the same name. If the user does modify the description, a new filter/sorting will be created for the given consultation.

These configurations are always linked to a concrete consultation. If therefore the user wishes to save the same filter/sorting configuration to two similar consultations, they will need to be specified and be saved to the two consultations separately. The filter/sorting configuration is saved locally on the user's PC and therefore, in the event that the user logs onto the Web from another PC, these filters/sorting will not be available on the other PC.

6.7 Record-related activities

Some consultations were configured in such a way so as to enable access to detailed information on each record displayed in consultation result (i.e. view all data of one bid or access to another consultation directly relating to it).

The *Action – record* button is used for this, which always shows as being inactive in the beginning. The button is activated after marking the record by clicking on the row header grey on the left (the record row will then turn blue), if there is a certain action defined for it. The activities are general for the given consultation regardless of which record is selected. By clicking on *Action – record* a flyout menu will be displayed allowing for the selection of some of the below activities.

There are three basic activity types carried out for the record:

- Access to the record's detail (i.e. access to the page for consultation of claims data, which appears in the consultation results records): the browser will show details of the selected record.
- The generating of files on the local disk (i.e. the generating of bid files for a bid selected from consultation results): The browser will show a standard dialogue window, which allows for the opening of a file or to save it to disk.
- Access to new consultation (i.e. *Valid implicit BC realizations* or *IM cumulated consultations*). In this case, the detailed data will appear in a new applet tab, which is automatically activated and shows the results.

6.8 Records-related activities

These are special case activities for all records which form the result of consultation. The *Action – all records* button is used for this purpose. This button is active if such activities were defined for the given consultation and one or more records were retrieved by the consultation. If it does not depend on the displayed records in the consultation results, the activities are general for the given consultation.



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If a filter was applied, only those records will be processed that meet the filter requirements.

By clicking on the button, a flyout menu will be displayed allowing for the selection of some of the below activities.

Basic activity types carried out on records:

- Access to the records' details – this is mainly for the intra-day and balancing market.

For example, statistic calculations can be consulted for all the bids displayed in consultation results, or all bids displayed in consultation results can be accepted or cancelled.

- Generating files on the local disk - the browser will show a standard dialogue window, which allows for the saving of a file to disk.

For example, when viewing BC realizations, the *File of realizations* allows for the creation of a file on the local disk containing all BC realizations from consultation result in the format for submitting realizations via file.

BC realizations by trading day - Microsoft Internet Explorer

BC realizations by trading day

Date from: 02/04/2007 Date

Date to: 26/04/2007 Date

EXECUTE

	Definition ID	Realization ID	Version	Seller	Buyer	Implicit	Trading day	State
F	f-1							
1	2216	74413	1	114	116	No	16/04/2007	Valid
2	2216	74412	2	114	116	Yes		Valid
3	2216	74412	1	114	116	Yes		Invalid
4	2216	74411	1	114	116	No	15/04/2007	Valid
5	2220	74399	5	116	131	Yes		Valid

FILTERS ACTION - RECORD ACTION - ALL RECORDS SAVE TO FILE PRINT

File of realizations

Records : 5 / 5

Main

Query results



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6.9 Save to file

If records are displayed in the results area, the *Save to file* button will become active. The button allows for the writing of data contained in the consultation result to the file and does so in text format.

After activation of the button, a dialogue window will be displayed, enabling for the specification of:

- Name and location of the generated file (file location can be selected using the *Path* button). The location should be on the system drive (usually drive **C:**), folder **Ote**. Otherwise the system can interrupt the operation with error.
- The separating sign between record values (tab, semi-colon, space).
- Decimal separator for numerical values (comma or full stop).

After the specification of the given values and after clicking on *Ok* button, a text file is created with the entered name and location.

6.10 Printing

If any records appear in the results area, the *Print* button will be activated. This button allows for the sending of parameters for the given consultation to the printer, the date of consultation execution, description of active filters, number of records and data contained in the consultation results.

When performing this action, a new browser window will open with the contents ready to be printed. At the same time, a standard dialogue window will open up for printer selection.



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https://193.179.225.165/cgi-bin/consulta_applet/consulta_applet.dll - Windows Internet Explorer

Settlement fees

Initiation date: 15/8/2007
Termination date: 15/8/2007
Execution timestamp: 15/08/2007 15:35:31
Filters: No active filters

Records : 29 / 29

	Fee type	Valid from	Valid to	Price [CZK]
1	CDS access fee	01/02/2003	31/12/2222	1000.00
2	State of emergency - Geothermal	01/01/2007	31/12/2222	1450.00
3			31/12/2222	1450.00
4			31/12/2222	1450.00
5			31/12/2222	1450.00
6			31/12/2222	1450.00
7			31/12/2222	1450.00
8			31/12/2222	1450.00
9			31/12/2222	1450.00
10			31/12/2222	1450.00
11			31/12/2222	1450.00
12			31/12/2222	1450.00
13			31/12/2222	1450.00

Print

General Options

Select Printer

Add Printer Xerox Regal with Splash RIP

Status: Ready ☐ Print to file Preferences

Location: Find Printer...

Comment:

Page Range

☒ All ☐ Selection ☐ Current Page

☐ Pages: 1

Enter either a single page number or a single page range. For example, 5-12

Number of copies: 1

☒ Collate

1 2 3 1 2 3

Print Cancel Apply

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7 APPLICATION LOG

7.1 Functionality

When going through the application, a list of pages visited by the user is created in the log file. In the file named *LOGAM.log*, a row is generated for each page visited and is saved in the local directory *C:\Ote\LogAM*. If the directory does not exist, it will be created automatically.

Each row contains information on the page visited, the time of visit and the actions performed on this page. The aim is to secure the local control of pages visited by individual users. The log file rows contain the following information: time and date, connection (*R* – remote or *L* - local), market participant identification, action performed, name of visited page and comments.

The file size is limited to 500 kB. If this size is exceeded, the log file will be closed (the file will be renamed using a name containing the current date and time *LOGAM_YYYYMMDD_HHMISS.log*) and a new *LOGAM.log* will be created, in which the entry of information will continue. All created log files will be saved in the same directory.

7.2 Structure

The overall appearance of the above-described *LOGAM.log* file is as follows:

04/12/2001 13:22:57 R	-7	-EntradaPagina	-Diario	-MenuDiario
04/12/2001 13:23:02 R	-7	-EntradaPagina	-DiarioInsOfertaPantalla	-InsercionOfertas
04/12/2001 13:23:06 R	-7	-EntradaPagina	-DiarioGenerarOferta	-SelBloquesOferta
04/12/2001 13:23:11 R	-7	-EntradaPagina	-ofertama	
04/12/2001 13:23:51 R	-7	-BotónPulsado	-ofertama	-Envío de la Ofer
04/12/2001 13:23:51 R	-7	-BotónPulsado	-ofertama	-Validación local
04/12/2001 13:23:52 R	-7	-BotónPulsado	-ofertama	-No hay errores.
04/12/2001 13:24:40 R	-7	-EntradaPagina	-ofertama	
04/12/2001 13:24:53 R	-7	-BotónPulsado	-ofertama	-Envío de la
04/12/2001 13:24:53 R	-7	-BotónPulsado	-ofertama	-Validación local
04/12/2001 13:24:54 R	-7	-BotónPulsado	-ofertama	-No hay errores.
04/12/2001 14:58:59 R	-7	-EntradaPagina	-Bilaterales	-MenuBilaterales
04/12/2001 14:01:36 R	-7	-BotónPulsado	-BilateralesInsEjecucionCBFichero-Buscando el	
04/12/2001 14:01:41 R	-7	-EntradaPagina	-Diario	-MenuDiario
04/12/2001 14:05:19 R	-7	-BotonPulsado	-BilateralesInsEjecucionCBFichero-Validación	
04/12/2001 14:05:28 R	-7	-EntradaPagina	-diario	-MenuDiario
04/12/2001 14:16:22 R	-7	-EntradaPagina	-bilaterales	-MenuBilaterales
04/12/2001 14:16:25 R	-7	-EntradaPagina	-Diario	-MenuDiario
04/12/2001 14:16:28 R	-7	-BotónPulsado	-BilateralesInsEjecucionCBFichero-Buscando el	
04/12/2001 14:16:54 R	-7	-BotonPulsado	-BilateralesInsEjecucionCBFichero-Validación	
04/12/2001 14:18:59 R	-7	-EntradaPagina	-Diario	-MenuDiario
04/12/2001 14:19:00 R	-7	-BotónPulsado	-BilateralesInsEjecucionCBFichero-Buscando el	

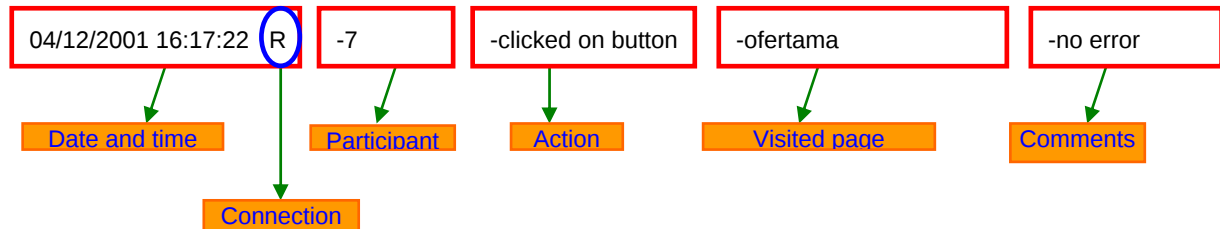


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The following diagram explains the fields in individual rows:



- **Date and time:** The date and time of the WEB server at the time of log entry or at the time of the local station in the event that connection to the server is lost.
- **Connection:** R (Remote), if the stated time and date is server-based data. L (Local), if the data is from the local station.
- **Participant:** Identification of market participant.
- **Action:** The activity performed on the relevant application page (opening of page, clicking of button, etc.).
- **Visited page:** Name of page based on which the log was created.
- **Comments:** Comments on the action performed on the page.

Note: The local log file was proposed with the aim of facilitating the determining and removal of any potential errors in the system reported by participants. The contents of the log file are always saved on the local disk and the participant can be requested to supply the log, if required. A situation when a participant announces an error in the system is seen as a reason for such request. For this reason, it was decided to keep the message contents in the original language of the development team.



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8 SUBMISSION OF SIGNED DATA

The IS OTE web interface includes a digital signature for confidential data submitted by the participants of the Market Operator. The operation for submission of data, to which the digital signature is attached, is as follows:

- The submission of bids for the day-ahead market via screen or via file
- Cancellation of bids on the day-ahead market
- Removal of implicit bids on the day-ahead market
- The submission, confirmation or rejection of bilateral contract definitions
- The submission of bilateral contract realizations via screen or via file
- Confirmation or rejection of bilateral contract realizations
- Cancellation of bilateral contract realizations
- Removal of implicit bilateral contract realizations
- The submission of bids for the intra-day market and balancing market via screen or via file
- Cancellation of bids on the intra-day market and balancing market
- The acceptance of bids for the intra-day market and balancing market via screen or via file

The digital signature process requires the participation of the user, especially for the selection of a signature certificate to be used and for the entering of the PIN of the given certificate.



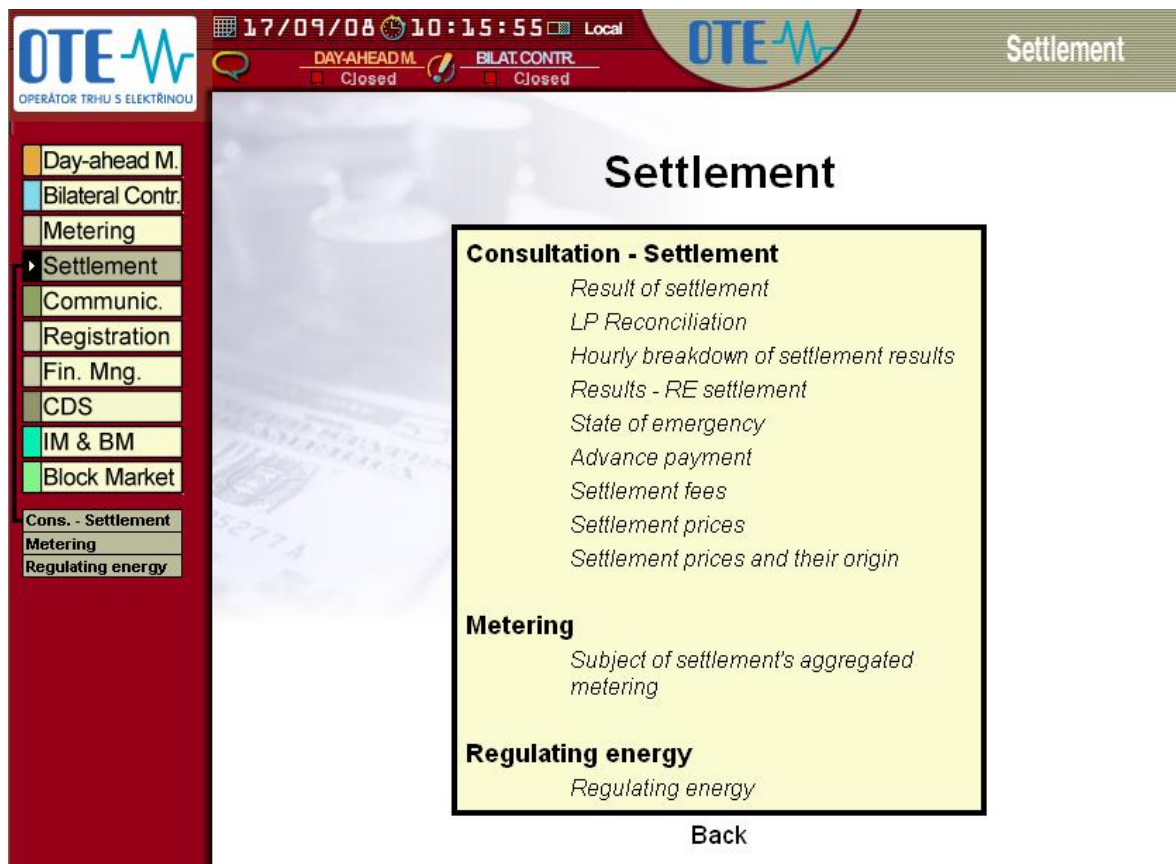
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9 SETTLEMENT CONSULTATION

9.1 Access

The *Settlement* option allows participants to consult the settlement process results. Both the main menu and the quick access panel can be used to access this option:



9.2 Consultation types

The application offers the following types of consultation for settlement results:

- **Result of settlement:** This consultation for given trading days and settlement version displays settlement results according to payment type: purchased and sold volumes and their balance, receivables and payables amounts and their balance. Based on the selected settlement consultation and the fact that the calculation concepts have been activated, the following payment types will appear:
 - CDS access fee
 - Consumption fee (it has not been calculated since January 1st, 2005)
 - DM settlement

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- Additional costs
 - DM fee
 - Positive imbalance
 - Negative imbalance
 - BM access fee
 - IM purchase
 - IM sale
 - IM fee
 - Imbalance
 - Monthly fee
 - Rounding off difference
 - Positive RE
 - Negative RE
 - State of emergency - consumption
 - State of emergency - supply
 - RE settlement surplus
- **LP Reconciliation:** This consultation for given trading days will display the consultation results for LP reconciliation: The date of change to the LP price, purchased and sold volumes and their balance, receivables and payables amounts and their balance.
 - **Hourly breakdown of settlement results:** For the given period, the market participant and settlement version, the settlement results will be displayed per individual hours for the selected day or month.
 A column for purchase/sale trade arising on the IM market is added to this consultation (for both volume and for the amount). The columns for regulating energy contain RE volumes sent to the TSO, part of which is also the amount traded on the BM. The consultation contains fee payments for the IM and BM.
 The following settlement result values are displayed:
 - BC purchase [MWh]
 - BC sale [MWh]
 - DM purchase [MWh]
 - DM sale [MWh]
 - Total purchase [MWh]
 - Total sale [MWh]
 - Positive imbalance [MWh]
 - Negative imbalance [MWh]
 - RE+ [MWh]
 - RE- [MWh]
 - Amount – positive imbalance [CZK]
 - Amount – negative imbalance [CZK]
 - Additional costs [CZK]
 - Amount – DM purchase [CZK]
 - Amount – DM sale [CZK]
 - Amount – RE+ [CZK]
 - Amount – RE- [CZK]
 - DM fee [CZK]
 - Consumption fee [CZK]

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- Monthly fee [CZK]
 - Rounding off difference [CZK]
 - CDS access fee [CZK]
 - IM purchase [MWh]
 - IM sale [MWh]
 - IM purchase [CZK]
 - IM sale [CZK]
 - IM fee [CZK]
 - BM access fee [CZK]
- **Results - RE settlement:** Will display a detailed breakdown of regulating energy per hour, divided up according to PDT and blocks, for the given trading day and settlement version. The volume, unit price and total amount of the negative/positive regulating energy are displayed.
 - **State of emergency:** Will display settlement results in a state of emergency per hour for the given trading day and settlement version. The supplied and consumed volumes and its amount are displayed.
 - **Advanced payment:** In a given month, the detail of the total volume and total payment obligation or receivables will be displayed for individual days, settlement versions, participants, payment types (CDS access fee, Consumption fee, DM settlement, Additional costs, DM fee, Positive imbalance, Negative imbalance, BM access fee, IM purchase, IM sale, IM fee, Imbalance, Monthly fee, Rounding off difference, Positive RE, Negative RE, RE, LP reconciliation, RE settlement surplus) and operation types (Purchase, Sale).
 - **Settlement fees:** Information on the scope of validity and each fee price will be displayed for the entered period. This consultation is supplemented with records for settlement fees on the IM and BM markets, the LP reconciliation price and the prices for resource types for a state of emergency.
 - **Settlement prices:** The settlement price value in each trading hour is displayed for selected trading days and settlement version.
 - **Settlement prices and their origin:** The settlement price for each hour, its origin (whether the price was determined by curve or by the regulating energy price) and the regulating energy settlement surplus (information accessible only for ČEPS and OTE users) is displayed for given trading days and settlement version.
The *Origin* column contains the follows values:
 - o *MinRE* – settlement price set according to minimum price of negative RE in a given trading hour
 - o *MaxRE* – settlement price set according to maximum price of positive RE in a given trading hour
 - o *Curve* – settlement price set according to settlement price curve
 - o *RE price* – settlement price set according to ČEPS

Two other consultations with data on metering and regulating energy are as follows:



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- **Subject of settlement's aggregated metering:** Shows the hourly metering of supplied and consumed volumes for given trading days.
- **Regulating energy:** Shows the amount and volume of regulating energy, separated according to PDT and blocks, for individual trading day hours.



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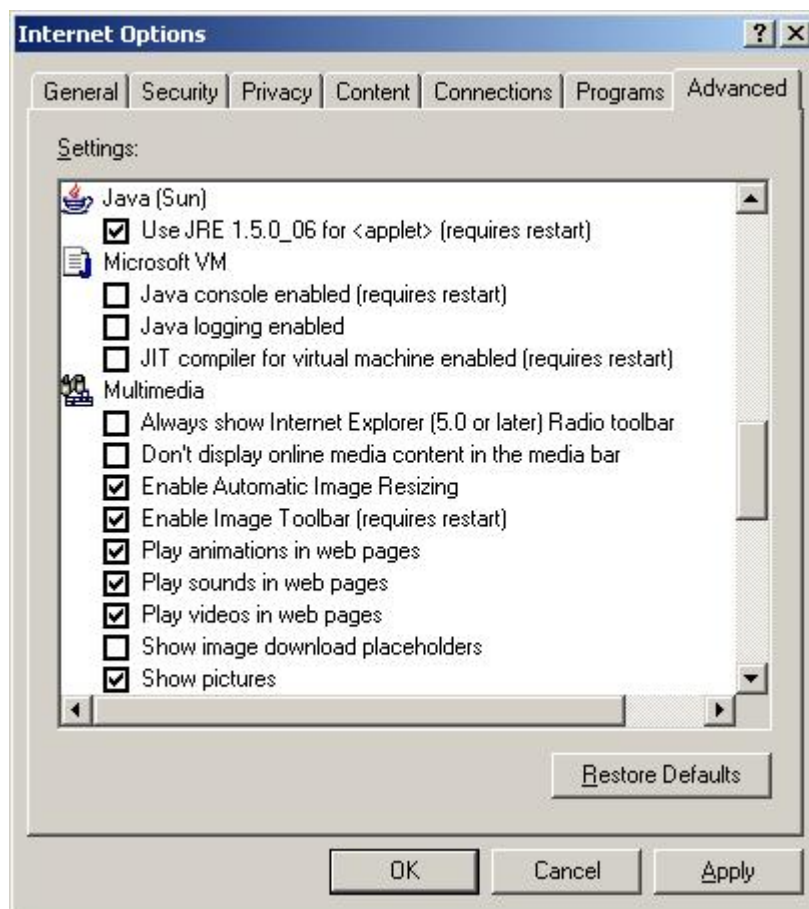
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A. Removal of VM – MS Java

It is strongly recommended that removal of Microsoft VM (MS Java) from workstation is done by a system administrator as per following instructions:

1. First it is necessary to deactivate Microsoft VM in the IE settings: Tools – Internet options – Advanced. There you can find Microsoft VM item. Deactivate all its nested items.



2. Run the command line (Start – Programs – Accessories – Command line, or Start – Run – cmd)
3. Into the command line write following command:
`RunDll32 advpack.dll,LaunchINFSection java.inf,UnInstall`
4. After that the dialog window of **Microsoft VM uninstall** is shown. Click on the button „Yes“.
5. If system needs restart, restart your computer.
6. After the machine restarts open your system directory, for example it can be:
`c:\WINDOWS\`

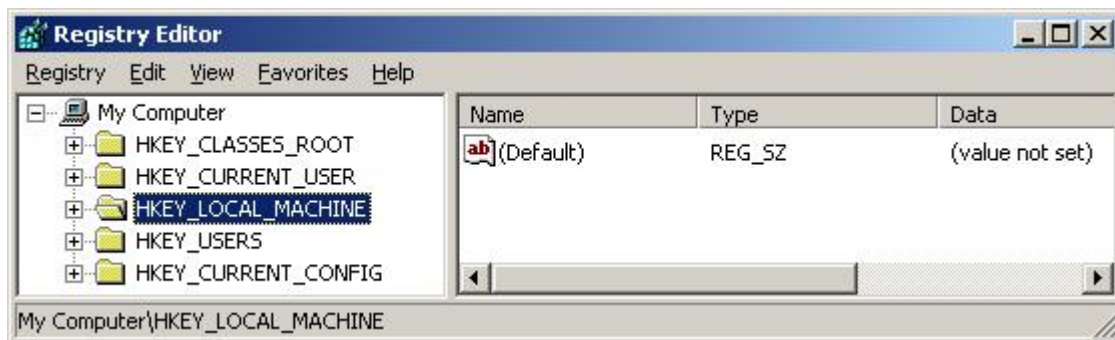


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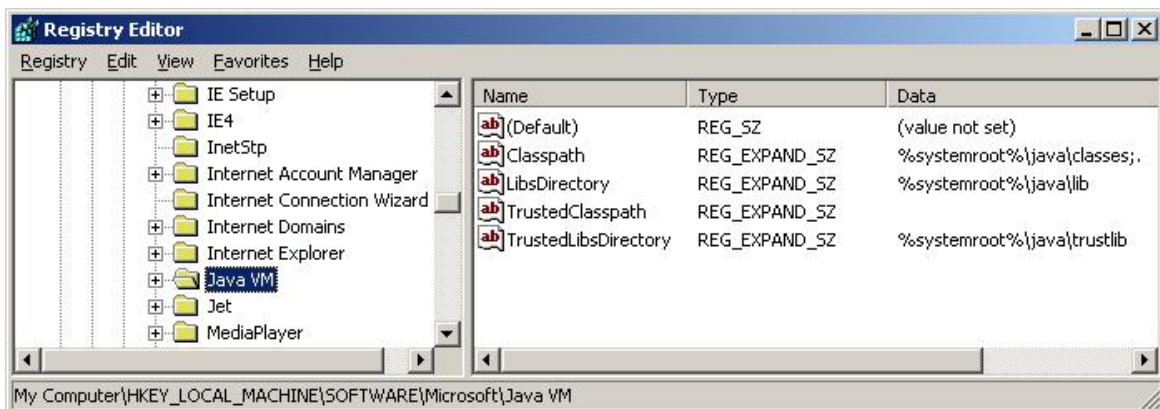
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7. From this system directory delete following files:
 - a. directory **java** from the system directory
 - b. file **java.pnf** from the system directory from folder system32 – if available
 - c. files **jview.exe** and **wjview.exe** from the system directory from folder system32
8. Into the command line write this command **regedit** – the dialog window of registries appears



9. Choose folder **HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Java VM**



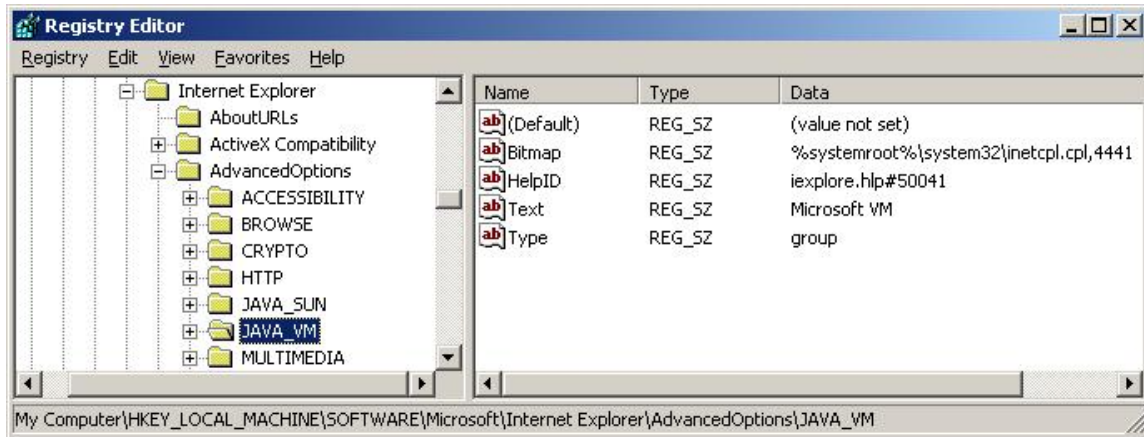
10. Delete the whole folder Java VM
11. Choose folder **HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Internet Explorer\AdvancedOptions\JAVA_VM**



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12. Delete the whole folder JAVA_VM

The removal of Microsoft VM application (MS Java) is finished now.

B. Certificate Installation

For the right functioning of the new applets the certificate OTECA installation is needed. You can download it from the OTE website. This certificate must be stored in the directory of trustable authority of the Java Runtime Environment, which you have installed in chapter. Do the following steps:

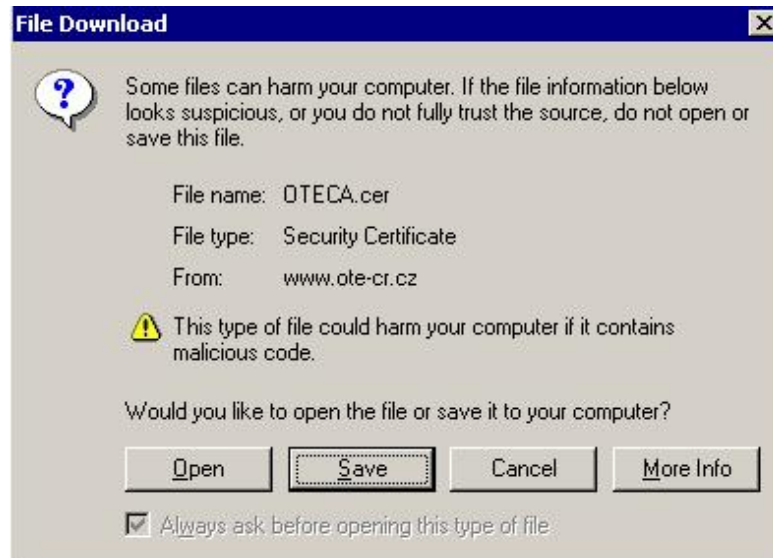
1. From the OTE website (http://www.ote-cr.cz/the-participants/registration-procedure/installation-procedure-logicacmg/installation-procedure-logicacmg/?set_language=en) download the OTECA certificate - „**The OTECA authority certificate (DER format)**“ and save it into the root directory on system drive (usually c:\) - After clicking on the certificate the window for saving appears. Click on the „**Save**“ button and save the certificate into the root directory of the system drive.



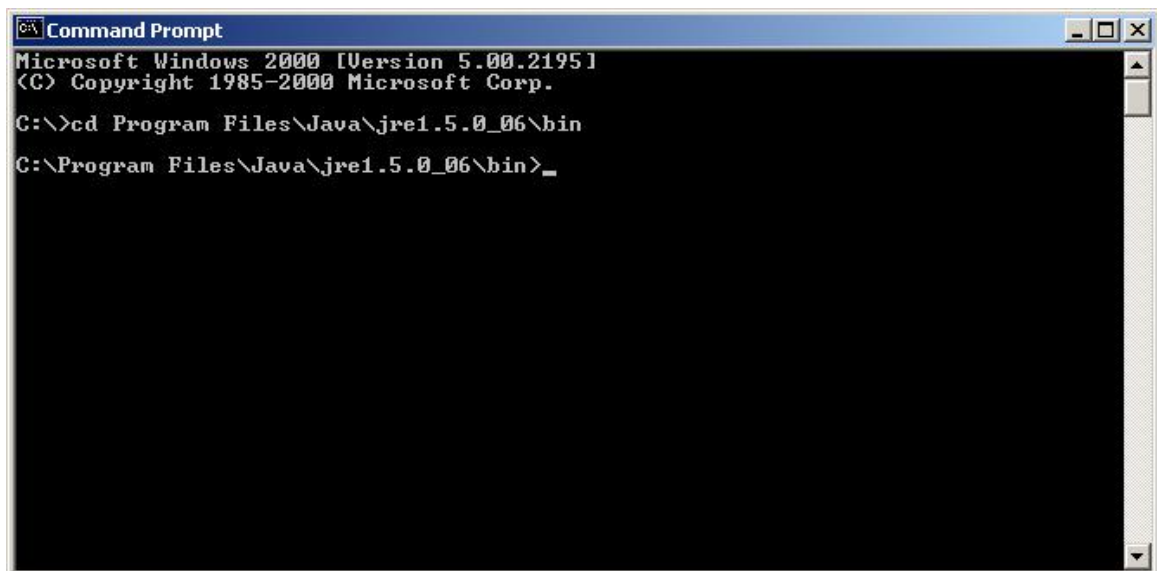
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2. Open command line from menu „**Start -> Programs -> Accessories -> Command Prompt**“. Switch into the system drive, for example, by command `c:\` which is supposed to be a system drive, command `cd \` switches it into the root directory of the system_drive. Command `cd \Java_dir\bin\` switches it into the directory of Java environment.



3. In this directory run command `keytool -import -alias oteca -trustcacerts -file c:\oteca.cer -keystore "system_drive\Java_dir\ lib\security\cacerts"` in which you have to replace system drive and Java_dir by real drive and folder to import the root certificate authority OTECA (we recommend to write the whole command into the command line manually, not to copy it). When you are asked for typing password for the certificate store, type password **changeit**.

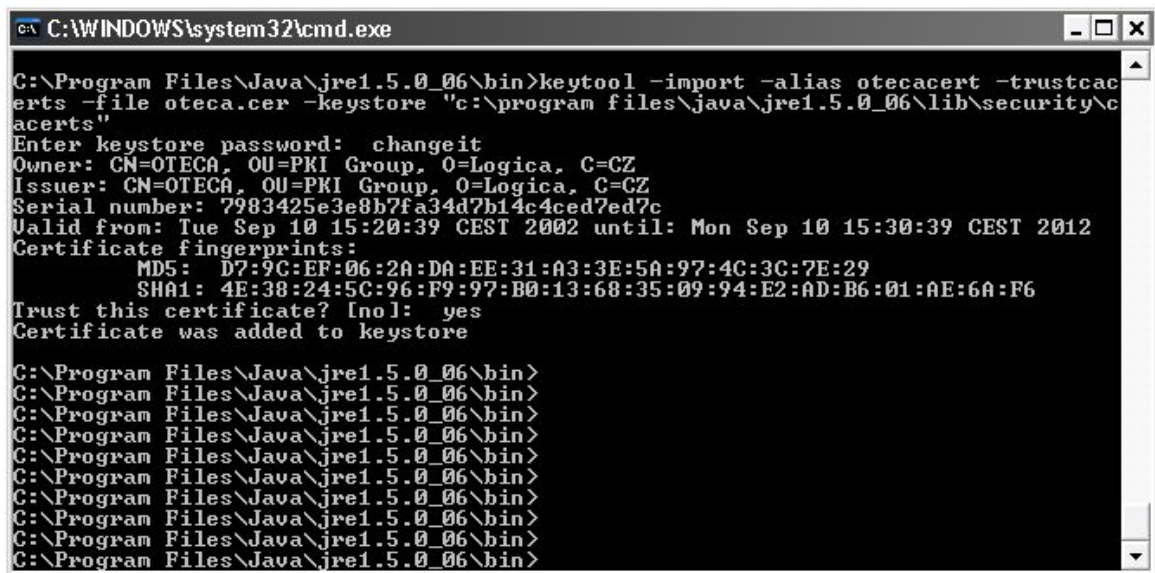


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4. The system will write on the screen „Trust this certificate?“ Write **yes** into the line and press enter.



```
C:\WINDOWS\system32\cmd.exe

C:\Program Files\Java\jre1.5.0_06\bin>keytool -import -alias otecacert -trustcacerts -file oteca.cer -keystore "c:\program files\java\jre1.5.0_06\lib\security\cacerts"
Enter keystore password: changeit
Owner: CN=OTECA, OU=PKI Group, O=Logica, C=CZ
Issuer: CN=OTECA, OU=PKI Group, O=Logica, C=CZ
Serial number: 7983425e3e8b7fa34d7b14c4ced7ed7c
Valid from: Tue Sep 10 15:20:39 CEST 2002 until: Mon Sep 10 15:30:39 CEST 2012
Certificate fingerprints:
    MD5: D7:9C:EF:06:2A:DA:EE:31:A3:3E:5A:97:4C:3C:7E:29
    SHA1: 4E:38:24:5C:96:F9:97:B0:13:68:35:09:94:E2:AD:B6:01:AE:6A:F6
Trust this certificate? [no]: yes
Certificate was added to keystore

C:\Program Files\Java\jre1.5.0_06\bin>
C:\Program Files\Java\jre1.5.0_06\bin>
C:\Program Files\Java\jre1.5.0_06\bin>
C:\Program Files\Java\jre1.5.0_06\bin>
C:\Program Files\Java\jre1.5.0_06\bin>
C:\Program Files\Java\jre1.5.0_06\bin>
C:\Program Files\Java\jre1.5.0_06\bin>
C:\Program Files\Java\jre1.5.0_06\bin>
C:\Program Files\Java\jre1.5.0_06\bin>
C:\Program Files\Java\jre1.5.0_06\bin>
```

5. Now the import of OTECA certificate authority is finished and the command window can be closed.
6. For proper finalization restart the computer