

MULTICASH 3.22

RECOMMENDED CLIENT HARDWARE AND SOFTWARE CONFIGURATION

Hardware

The main prerequisite for successful installation and use of the MultiCash program is, first of all, meeting demands of the operating system.

Client – Workstation

The following **minimum** configuration is recommended for operating the MultiCash at a local station (or a client station in network installation).

- Processor Intel Pentium III 500 MHz or compatible
- 512 MB RAM
- 40 GB HDD
- CD-ROM (for SW installation)
- 1024x768 pixels monitor resolution
- Connected printer (for initializing letters printing)
- Mouse
- Keyboard

The recommended values for **optimum** program operation are as follows:

- 1 GHz CPU
- 1 GB RAM
- Standard HDD capacities and speeds

Electronic Signature Storages

It is possible to save the electronic signature to following useful storages:

- Diskette drive (3,5")
- USB flash disk
- Hard disk or shared network disk

Communication

There are two possibilities how to communicate with the bank:

- TCP/IP – enabled communication port **1350, 1360** and **DNS address of the bank** (or IP address) **multicash.csas.cz** (194.50.240.88 or 194.50.240.216).
- Modem (analog modem) – telephone numbers **261 071 903** or **241 071 888**.

Server

The server for network installation should meet the following **minimum** requirements for functioning of all components of the MultiCash program.

- 1 GHz CPU
- 512 MB RAM

- 40 GB HDD (at least 100MB of free space on HDD – depends on downloaded data quantity and installed modules number).
- CD-ROM (for SW installation)
- 1024x768 pixels monitor resolution
- Mouse
- Keyboard

The recommended values for **optimum** program operation are as follows

- four - core processor
- 4 GB RAM
- RAID 10 Disc Array with standby supply

Note:

It is recommended to secure enough RAM capacity to prevent the HDD swapping when there are maximally 5 workstations in MultiCash network installation configured and one of the workstation is as a server used.

Network environment

- 100/1000 Mbit network is recommended. 10Mbit network is not applicable.
- It is recommended to discuss the network solution individually in the case of wide network MultiCash installations.
- Application could be unstable in Novell - Clients environment.

TCP/IP and following communication ports have to be enabled for MultiCash to be fully operational:

- 4711, 4712 – to start the application MultiCash (communication with database service)
- 443 – between DMZ and internet for ciphered SSL connection
- 445 – Microsoft - DS
- 139 – NETBIOS Session Service
- 138 – NETBIOS Datagram Service
- 137 – NETBIOS Name Service
- 135 – NETBIOS Name Service

Software**Klient - workstation**

It is recommended to use NT File systém (NTFS). In FAT32 the user profile name must not be in the operating system with diacritics.

- Windows XP
- Windows XP Home Edition – This version cannot be used in the case of the network installations because of the missing access rights settings.
- Windows Vista – Recommended is Business version at least.
- Windows 7
- Adobe Acrobat Reader – version 8.0 and higher, language version according to operating system.
- Internet Explorer 6.5 and higher

Server

It is recommended to use NT File System (NTFS).

- Windows 2003 Server
- Windows 2008 Server

If you intend to use the MultiCash software version 3.22 on the Windows 2008 Server system, please check the following areas where substantial changes have occurred (in particular the points 1, 3 and 5 are important).

1. User Account Control – It may happen that it is necessary to preset UAC or to turn it off completely.
2. Network configuration – a wrong network configuration can cause that database service works properly but clients cannot be connected to the service.
3. Standard access rights for services have been changed, which must be taken into account.
4. New version of Firewall – some problems can occur if the basic firewall setting is changed.
5. Improvement of REMOTE APPS function – now, it is more similar to Citrix, which causes changes in requirements for configuration.

Note:

All of the software mentioned above has to be installed including its last Service Packs !

MULTICASH CLIENT SUPPORT

Our MultiCash Client Support staff is ready to assist you with all matters relating to the MultiCash service of Ceska sporitelna, a.s. on working days from 7 am to 6 pm – contact us by phone or email at:

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<http://www.csas.cz/multicash>