REQUIREMENTS FOR INSTALLATION
OF THE PROGRAM ČSOB MULTICASH 24

Československá obchodná banka,a.s., Žižkova 11, 811 02 Bratislava, Registration No. (IČO) 36 854 140, Registered in the Commercial Registry of the District Court in Bratislava I, Section Sa, Entry 4314/B (hereinafter the „Bank") hereby stipulates the technical requirements for a successful installation of the MultiCash software.

Company **Qtri, s.r.o.** provides MultiCash installations for the clients of the Bank.

Recommended configuration:

In case of large network installations we recommend to discuss the configuration individually with Electronic banking Helpdesk, tel. 0850 111 133 from Slovakia or +421 2 5966 8390, mail: **corhelpdeskelb@csob.sk.**

A successful installation and the use of MultiCash program requires that the following technical conditions are met:

1.1   Hardware

1.1.1   Server (Client workstation):

For optimal operation of all components on the PC a standard system with the following performance parameters is recommended at least: (plus, the requirements of the operating system must be taken into account):
- 1 GHz Intel Pentium 4
- 512 MB RAM
- 40 GB free space on HDD (hard disk) - depending on the number of installed modules and the amount of data to be administered
- CD-ROM drive (for installation)
- Screen resolution 1.024x768
- Mouse
- Keyboard

Note:
In small network environments with up to 5 users also a computer with client performance features can be used as server to run the mere Windows network solution. However it is to be assured that sufficient RAM is available in order to prevent a permanent swap out to the non-removable disk.

1.1.2   Network environment
- 100 Mb band width is recommended
- in the environment of Novell – Client the application may not be stable in some cases

In order to run the MultiCash program, TCP/IP protocol is necessary and the following ports must be open:

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

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1.2 Software:

1.2.1 Server

- we recommend a file system NTFS
- Windows 2003 server, Windows 2008 server

1.2.2 Client workstation
- Windows XP
- Windows Vista - minimum Vista Business version
- Windows 7
- Windows 8 (Windows 8.1)
- Adobe Acrobat reader - version 7.0 or higher, language version based on operating system
- Internet Explorer 7.0 or higher

Note:
The software mentioned above must be installed together with the latest service pack.

1.3 System communication requirements:

The client will communicate via the Internet using this IP addresse:
IP Adresa : **193.245.72.204**   port: **1156**   DNS: **mc.csob.sk**

Proper connection to the Internet from the client's PC is must, and also data transfer enabled from the PC to those particular IP addresses.

It is necessary to test Internet connection **(the client's administrator can test the connection or the client can turn to Electronic banking Helpdesk** (tel. +421 2 5966 8390)**, which can test the connection with the client):**
- test of the functionality of telnet to an IP address and port for the given connection, telnet to a static address becomes functional after the client's IP address is registered in the Bank's system.

The client must arrange for his or her administrator to:
- permit data transfer both ways between the network and PC from which MultiCash user will communicate with the bank via the given IP address (firewall, proxy server, router…)
- if the client does not wish to open a direct connection from a PC that is on an internal network, he or she can remap the IP addresses and ports for firewalls – clients must configure this themselves.

- The client bears sole responsibility for setting up and testing the connection. If a connection is untested and non-functional, Bank is entitled to compensation (travel costs) from the client – a technician from Qtri s.r.o. will have to visit the client again to finish the installation.
- If a client needs support to set up and test a connection, he or she can telephone Electronic banking Helpdesk, tel. 0850 111 133 from Slovakia or +421 2 5966 8390, email: corhelpdeskelb@csob.sk

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To avoid unnecessary confusion in the course of installation, the following requirements should, be met:

- A system administrator should be present at the agreed time of installation
- The client must back up his/her/its data before the MultiCash reinstallation can begin
- The staff authorised to use the electronic signature should be present at the agreed time of installation
- The functionality of the following items should be checked beforehand:
  - telnet to the Bank for the communication via the Internet
  - all terminals should be accessible at the agreed time of installation (to set up system parameters)

Expected installation time
about 2 to 4 hours.

Qtri, s.r.o. shall not be obliged to install the MultiCash software if the above mentioned requirements for installation have not been met.
The MultiCash software will be installed based on the Questionnaire for installation of ČSOB MultiCash 24 (hereinafter „Questionnaire") and the Contract for provision of ČSOB electronic banking – ČSOB MultiCash 24 (hereinafter the „Contract"). If the data stated in the Questionnaire or the Contract differ from the client's requirements brought up in time of the very installation, the MultiCash will be installed in line with the Questionnaire and the Contract.

These requirements for installation are valid from August 1, 2017.