



## For standard Java phones

**VNC+:** Virtual Network Computing for Mobiles provides an easy and convenient way for anyone to access, enjoy the navigation and perform tasks on a desktop or laptop PC from a mobile device. Whether you need to check your e-mail, edit the document, install or start a new application or write a quick note to your co-worker - with VNC+ it is possible.

### Getting started with VNC+

---

#### **STEP 1. Installation of VNC server**

If you have VNC running on your computer please go to [STEP 2](#).

If you have not installed a VNC server, please download VNC server from one of these sources:

- RealVNC: <http://www.realvnc.com/>
- UltraVNC: <http://ultravnc.com/>
- TightVNC: <http://www.tightvnc.com/>

***Tip:***

1. To learn more about VNC read the online Wikipedia encyclopedia.
2. You can choose to download free VNC server (UltraVNC, TightVNC or free edition of RealVNC) or purchase commercial version of VNC (Personal or Enterprise edition of RealVNC).

#### **STEP 2. Installation of VNC+**

The most effective way to install VNC+ is installing via infrared or Bluetooth. To do this, perform these steps:

1. Open the Internet browser on computer and freely download zip.archive with installation files at [http://www.shapeservices.com/freedownload/vnc/Standard/vncplus\\_standard.zip](http://www.shapeservices.com/freedownload/vnc/Standard/vncplus_standard.zip)
2. Unzip the archive to any folder on your PC.
3. Connect your mobile to the computer and transfer the \*.jad and the \*.jar files via infrared or Bluetooth.
4. Run the received file on your mobile.
5. The icon of VNC+ application appears on your device.

***Tip:*** Alternatively you can download VNC+ to your mobile over-the-air:

1. Open the Internet browser on your mobile device.
2. Navigate **wap.shapeservices.com**, find VNC+ and freely download the file.
3. Install VNC+ on your mobile device following the on-screen instructions.

### STEP 3. Registration or trial

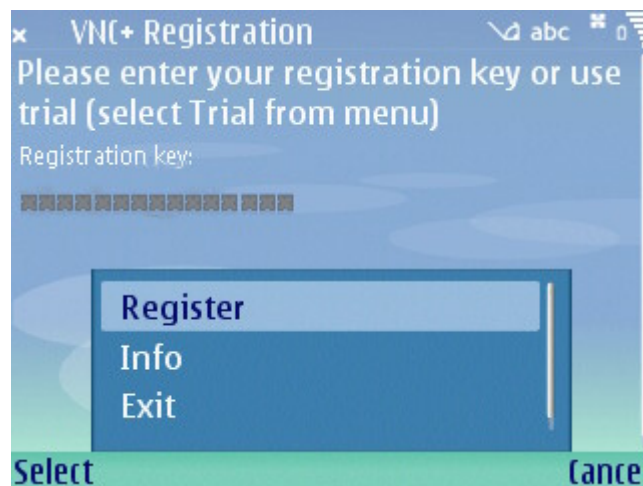
**Tip:** You can try a full-functional version of VNC+ for 7 days for free or purchase\* the license code to get the unlimited access to the application.

\*If you purchase the license code, you are automatically entitled to receive all future updates for free.

After the first launch of VNC+ you will be asked to insert the registration key.

If you have already purchased VNC+, you should have received your registration key. Type in the registration key and select '**Register**' from the menu.

If you want to use VNC+ in trial mode, then select '**Trial**' from the menu.



### STEP 4. Connect to your computer

**Note:** Be sure that the computers you want to connect to have VNC server running.

Next you should establish connection/s with computer/s you want manage.

**Note:** If connection to VNC failed, we recommend you to test the connection to port 5900 on another computer that has access to Internet and is connected to any network except the local one.

Please perform the following steps to check if port 5900 is open:

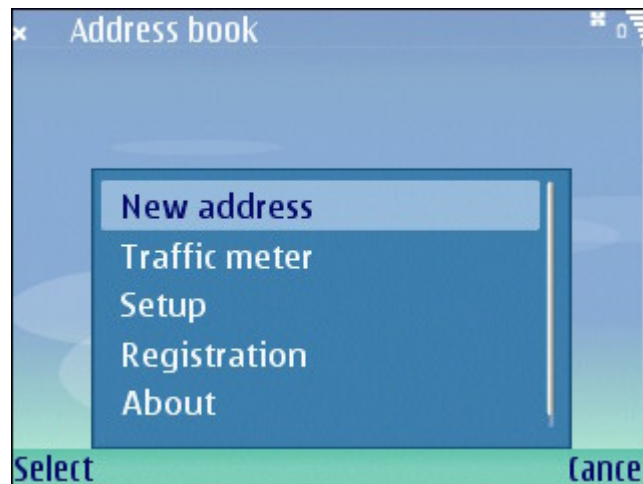
1. Click the Start button and select Run option.
2. Enter cmd.exe into the field and press OK button.
3. At the command prompt enter "**telnet <external Internet IP> 5900**". For example, telnet 192.168.1.1 5900.

Allow some time for processing. If as a result you receive this message "Could not open connection to the host, on port 5900: Connect failed" then get more information about VNC connection at

[http://www.portforward.com/english/applications/port\\_forwarding/VNC/VNCindex.htm](http://www.portforward.com/english/applications/port_forwarding/VNC/VNCindex.htm)

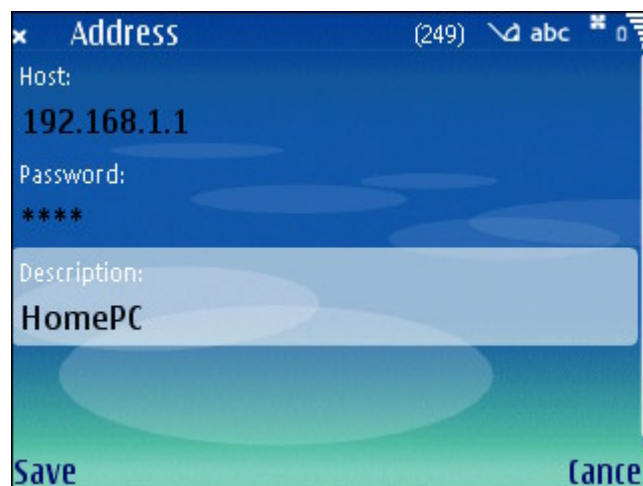
If you do not receive the message above then the port 5900 is open and you can continue the installation process.

To create new connection please select '**New address**' from the main VNC+ menu.



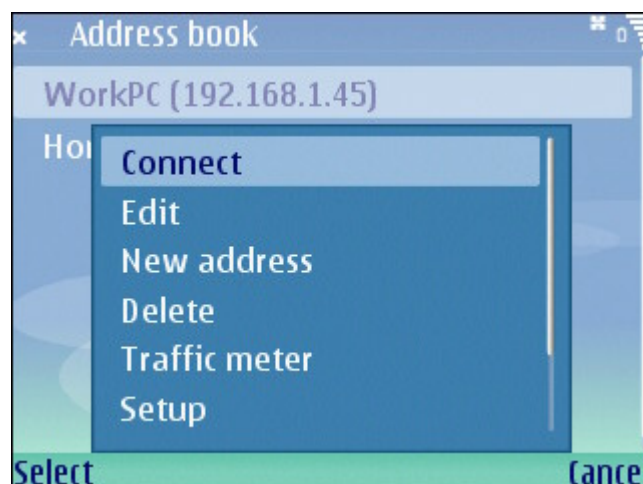
Fill in the following fields in the appeared window:

<b>HOST</b>	Type in IP address
<b>Password</b>	Type the password you used in VNC server on your computer
<b>Description</b>	You can give a name to the host. If the description field remains empty host address will be displayed only.

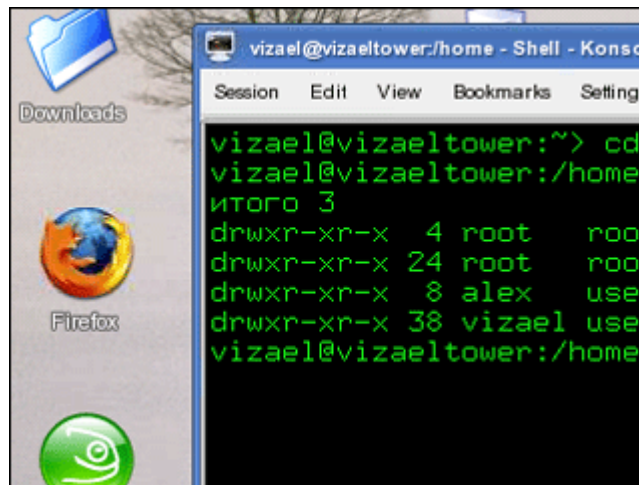


Then select '**Save**' from the menu.

Select '**Connect**' and your mobile device will get connected to computer via VNC connection.



After a successful connection to the remote computer, you will see the remote desktop on the device screen.



### Security

Usually VNC uses encryption when making an initial connection, and when you login. Once connected, all VNC data is unencrypted, and a malicious user could snoop your VNC session.

Tunnelling VNC over a SSH connection allows you to use VNC to access your computer(s) which are behind your firewall, with all traffic strongly encrypted, and optionally compressed. Additionally, no VNC port is ever open to the internet, so anyone scanning for open VNC ports will not be able to find your computers.

If you want to use SSH when you add a new address / edit in the Address Book please select '**Options**' – '**Security**' and then SSH2. Fill in the following fields in the appeared window:

<b>Host</b>	Type in the hostname or IP address of the SSH server that you want to connect through. If the port differs from the default one, you can specify it after host name through ":". The default port is 22.
<b>User name</b>	Type in the user name to authenticate with the SSH server.
<b>Password</b>	Type in the password to authenticate with the SSH server

You can find more information about using SSH for the different OS here:

<http://www.openssh.com>

<http://sshwindows.sourceforge.net>

<http://www.vanemery.com/Linux/VNC/vnc-over-ssh.html>

Except SSH you can use the encryption plugins MSRC4 and ARC4 for the UltraVNC server ([www.ultravnc.com](http://www.ultravnc.com)) running on your PC.

You can find more information about the plugins here:

<http://msrc4plugin.home.comcast.net/index.html>

**Note:** You have not to enable the saving and using the encryption key from the external files. VNC+ mobile client uses the password to your remote host as the encryption key in the plugin.

## Hotkeys Usage

Our application supports predefined hotkeys. After you press the # key the menu with control keys will appear on your mobile screen.

Following hotkeys are available in program:

[5] - Menu Key

[1] - Left mouse click \*

[2] - Left double click \*

[3] - Right click\*

[6] - Left click and hold \*

\* If not in cursor mode a key can be pressed to switch to cursor mode.

[4] - Selecting and sending keyboard shortcut from list.

[8] - Zoom In.

[9] - Zoom Out.

[\*] - Turning on scroll mode.

[0] - Selecting and sending keys sequence (entering text string).

[#] - Opening/Closing Control keys menu

[SelectKey] \* - [Enter]

## Shortcuts

Depending on OS (Window/Linux/Mac) on your remote host you can select the shortcut sequence when you add or edit the host in address book.

The chosen shortcut sequence will be available in the desktop mode from 'Send shortcut' from the menu.

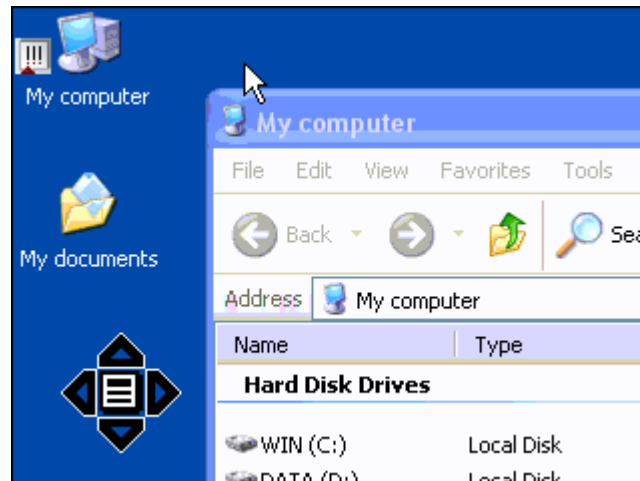
You can also add a new/edit shortcut for OS of the remote host you are using. Select '**Setup**' from the menu and then '**Shortcuts**'. While adding a new shortcut please enter its name in the 'Shortcut name' field and the key sequence in the 'Key sequence' field. The chosen key sequence will be transferred to your desktop. You can use 'Add key' from the menu when you add the key sequence. Please see the examples of the most used key sequence in the standard shortcuts.

**Tip:** Also, you can add a new/edit shortcut for OS when you are in the desktop mode. Just select '**Send shortcut**' – '**Add new**' from the menu.

## Touchscreen usage

Furthermore our application supports touchscreen (for the mobile devices with touchscreen support, for example, Sony Ericsson P9xx).

One stylus touch on the screen and you can see the navigation icon.



Holding the stylus down on the central icon and the menu with keys for control the desktop will appear on your mobile screen. You can choose such functions like 'Mouse', 'Zoom in', 'Zoom out', 'Text cursor', 'Disconnect' and etc.

Also you are able to move through the desktop via navigation points – left, right, up and down.

The stylus for the phone is as useful as the mouse for the computer. One stylus touch works like mouse click, double stylus touch works like double mouse click.

## **Technical support**

If you find out some problem while you are using the application you can send a request to our support team.

Please fill out our Support form on our site:

[http://www.shapeservices.com/en/support/support.php?form=vnc\\_midp2&platform=midp2](http://www.shapeservices.com/en/support/support.php?form=vnc_midp2&platform=midp2)

Our Support Team will answer your request within two business days.