# Howto remote access Windows PC which is behind Vivacom ADSL (Commtrend SmartAX MT882 router) modem with VNC server

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I had been assigned the not easy task to **make a Windows XP Pro which is located behind an ADSL modem to be remotely accessible via VNC**

The Windows is connected to the Bulgarian *Vivacom Intrnet provider through their ADSL service* and hence there is an ADSL router modem which is configured to disallow all inbuond connections by default.

The Windows Pro PC where the VNC server was needed to be accessible did not have a real IP address (e.g. was assigned a virtual IP address by the ADSL modem.

The exact ADSL model used to connect the computer via a lan cable to the internet was **Huawei SmartAX MT882**

As the device is owned by **Vivacom (the ex BTK tele communication company)** I did not have any admin user and pass credentials for the ADSL modem to configure the ADSL router to do a port NAT forwarding of **port 5800 and 5900** used by the VNC software I installed on the PC **(TightVNC)**

Nevertheless the missing user and password I decided to check in google if I can find **some default passwords that Vivacom ADSL modems are configured to work with**

After a few minutes spend in Google I already had found *few passwords which were said to work fine with the Vivacom ADSL router.*
Here are the passwords I found for the Vivacom ADSL Internet modems:

ZTE ZXDSL 832
username: root
password:GSrootaccess

ZTE ZXDSL 831
username:root
password:GSrootaccess

ZTE
username:root
password:831access

Huawei SmartAX MT882
username:root

password:MT882rootaccess

ZTE ZXDSL-531b
username: root
password:warmWLspot


I tried some old school brute force techniques ;) by trying all the passwords via the ADSL web interface
located on  *http://192.168.1.1* (I was not sure which model the Vivacom ADSL modem is as on the router
there was nothing written concerning the modem type but only the Vivacom logo was present.

After a bit of time I already knew that the ADSL modem model, user and pass was:

Huawei SmartAX MT882
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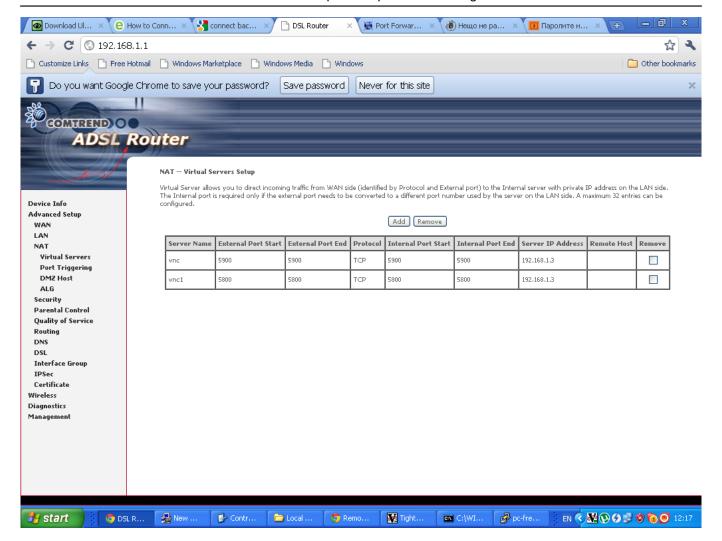user: root
pass: MT882rootaccess


My next step was to **configure port forwarding for the SmartAX MT882 ADSL** in order to achieve
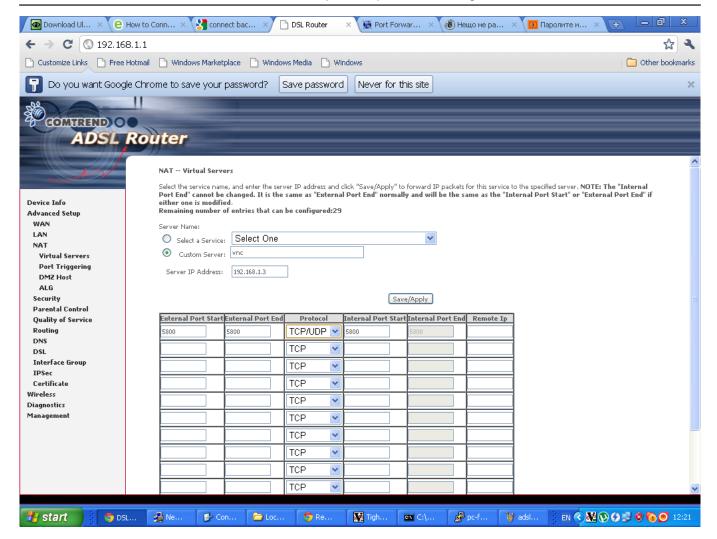from modem's web administrator I had to follow the menus:

Advanced Setup -> Virtual Servers

Next in the **NAT -- Virtual Servers** section I pressed the **Add** button to create new automatic redirection (port forwarding) rule.

**Configuring ADSL SmartAX MT882 TightVNC NAT port redirection screenTightVNC** requires
also NAT port redirection rule for port **5900** in order to be able to connect to the VNC server behind the
dsl, so analogically I added a Virtual Server NAT rule for port 5900.

Note that the private IP address of the Windows host was assigned by the ADSL router to the
ip **192.168.1.3**

Further on I expected the adsl port forwarding created rule would now allow me to connect to the VNC
server on the pc located behind the dsl firewall, but I was wrong... even though all seemed to be
configured just fine in the ADSL router still the **port unmbers 5800 and 5900** were showing up as
**closed** during nmap scan as well as a simple telnet connection to port 5800 and 5900 failed to get
established.

My logical assumption was that some configured Firewall on the Windows PC is blocking port
connections to **5800 and 5900** thus I decided to check the default Windows Firewall settings as a first
possible cause for the vnc ports being blocked.

I did that via the Windows menus:

Start -> Settings -> Control Panel -> Windows Firewall

However weirly enought it seemed the Windows Firewall was disabled e.g. the **Off (not recommended)** option was set for the firewall.

A bunch of other lookup over all the running system and services on the windows hosts I have found the PC is protected by **NOD32 Antivirus - Personal Firewall**

The default behaviour of NOD32's Persnal firewall was extremely restrictive and I found it's causing a port filter of the 5800 and 5900 vnc connection ports.

To solve the filtering nod32 did I had to open NOD32 and navigate to the following menus:

Setup -> Personal Firewall -> Configure rules and Zones

In the **Zone and rule setup** menu config window I had to further press on:
 **New** button to add new personal firewall rule.

In the **New rule:** menu I filled in the following info:
In the **General** tab:

Name: vnc
Direction: Both
Action: Allow

In the tab **Local**

I pressed over the **Add Port**

Number: 5800

in the **Remote** tab once again I had to fill in:
Number: 5800

Then to confirm settings just pressed **OK**

Next on I added in the same manner an allow rule for port 5900.

After this settings I restarted the NOD32 firewall to make sure the new settings takes place by pressing over the Personal firewall button **Disable filtering: allow all traffic** and right after enabling the firewall once again.

Now remote tightvnc connections to the Windows XP Pro pc works like a charm once again, Thanks God
;)