

VIRTUAL NETWORK COMPUTING (VNC)

TANDBERG

Application Notes

D12800 Rev. 1.0

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1. INTRODUCTION.

VNC is a remote display system, which allows viewing a computing 'desktop' environment on a remote TANDBERG codec over a LAN connection. VNC consists of two types of component. A *server*, which generates a display, and a *viewer*, which actually draws the display on the monitor.

The VNC system is based on the concept of a remote framebuffer or *RFB*. Therefore, it is referred to the protocol underlying VNC as the *RFB protocol*. The RFB protocol simply allows a server to update the framebuffer displayed on a viewer. The protocol will operate over any reliable transport such as TCP/IP. In addition, no state of communication is stored at the viewer. It means that interrupting the viewer's connection to the server and then reconnecting will not result in any loss of data.

2. SYSTEM REQUIREMENTS

VNC runs on all TANDBERG systems using software versions B3.0 (released July 2001) or later. On the PC, it is supported by most of platforms, such as Windows, Unix and Macintosh. The following chapters describe the steps for Windows application.

3. INSTALLATION

PC SoftPresenter is a feature, implemented by TANDBERG that allows PC images to be shown to their videoconference systems by using the LAN. In order to use this feature, software from 'Virtual Network Computing' (VNC) must be installed on the PC. (Free download).



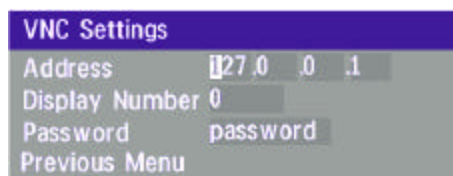
TANDBERG has installed the *viewer* component on its codecs and the *server* component must be installed on the PC used for a presentation. The VNC server software can be downloaded free of charge from www.uk.research.att.com/vnc/

2.1 Configuration on the PC

WinVNC (server software for Windows) is simple to install and to use:

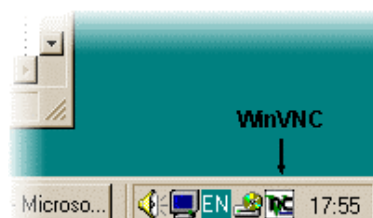
1. Install VNC on your PC (free from www.uk.research.att.com/vnc/)
2. Run the WinVNC setup program. (If you received VNC as a ZIP or TAR archive, you'll need to unpack it first!)
3. Select *Install Default Registry Settings* from the WinVNC folder in the Start menu. This will install the default hooks settings, which are tweaked to cope with some common, uncooperative applications, such as the cbck. This is not vital, but will make things run a bit better.
4. WinVNC can now be run (in Application mode) from the Start menu.
5. Configure the WinVNC server software (WinVNC properties)
 - Select Accept Socket Connections.
 - Leave the display number in 0 and select 'Auto' for Display Number – 'Display number' in the codec must then have the value 0.
 - Write password in the 'password' field. It must correspond with the 'VNC settings' in the codec - Incoming connections must be authenticated to verify that the person connecting is allowed to connect to this machine. This text box allows your password to be specified for authentication.
 - Leave the rest of fields as they are.

2.2. Configuration on the TANDBERG system.



1. Write the PC's IP address into the 'Address' field (in menu /video settings /VNC settings).

Note: when running VNC on the PC, WinVNC will add a small, green version of the VNC icon to the system task bar. By moving the mouse over the VNC icon the IP addresses will be displayed.



2. Leave the 'display number' and 'password' as is for now ('0' and 'password'). They must match the VNC properties in the PC. From software version B4.0, the password will be shown as asterisks ('*****') after leaving the VNC setting menu.

3. USING VNC

1. Start the VNC software on your PC.
2. Go to <video settings> on the codec and set 'pc' to "VNC". This option is not needed on the TANDBERG 1000 and TANDBERG 500 systems.
3. Select 'pc' input on remote control as video source and wait a few seconds for the pc image to appear on the selfview/far end.
4. Use UP/DOWN on the remote control in order to activate PAGE UP/PAGE DOWN on the PC.
5. The VNC icon on the PC will light up green when the PC image is displayed and let you know that someone is watching your pc screen- when a different video source is selected then the icon will go grey again.

Things to remember:

- The Codec and the PC must be connected to the LAN in order to communicate.
- VNC feature is a presentation feature and not optimised for moving data.
- VNC is very sensitive to correct network and graphic card drivers. If you experience problems, try to update the latest drivers from your vendor on your PC.