Admin properties

Incoming connection

Accept Socket Connections:
Off: refuse incoming
On: Allow incoming

Auto: Use port 5900 and 5800 and when the port is in use increase the number.
Sample: if port 5900 is used by an other app, vnc use 5901.

Main: rfb port, default 5900.
Http: port used by the java viewer

Display: backward compatible, if set to 1 you use 5901 and 5801

Enable Javaviewer: Enable http port 5800 for java access
Allow loopback: Server and viewer can be on the same PC
Loopbackonly: Server and viewer need to be on the same pc

Authentication

Password: vnc password, MAX 8 chars
View-Only Password: You can set a different password to give someone view-only access

MS Logon:
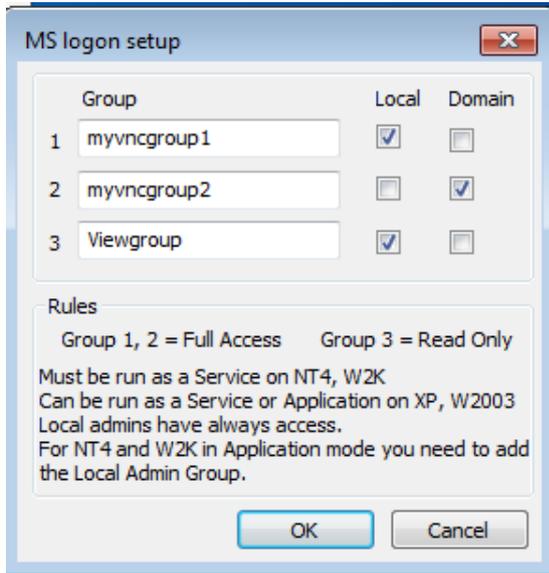
Admin: always access
If user belong to group 1,2 -> full access. 3 ->view only
On connection we check if the user/password is correct and that the user belong to a defined group.

New MS Logon (use authSSP.dll)
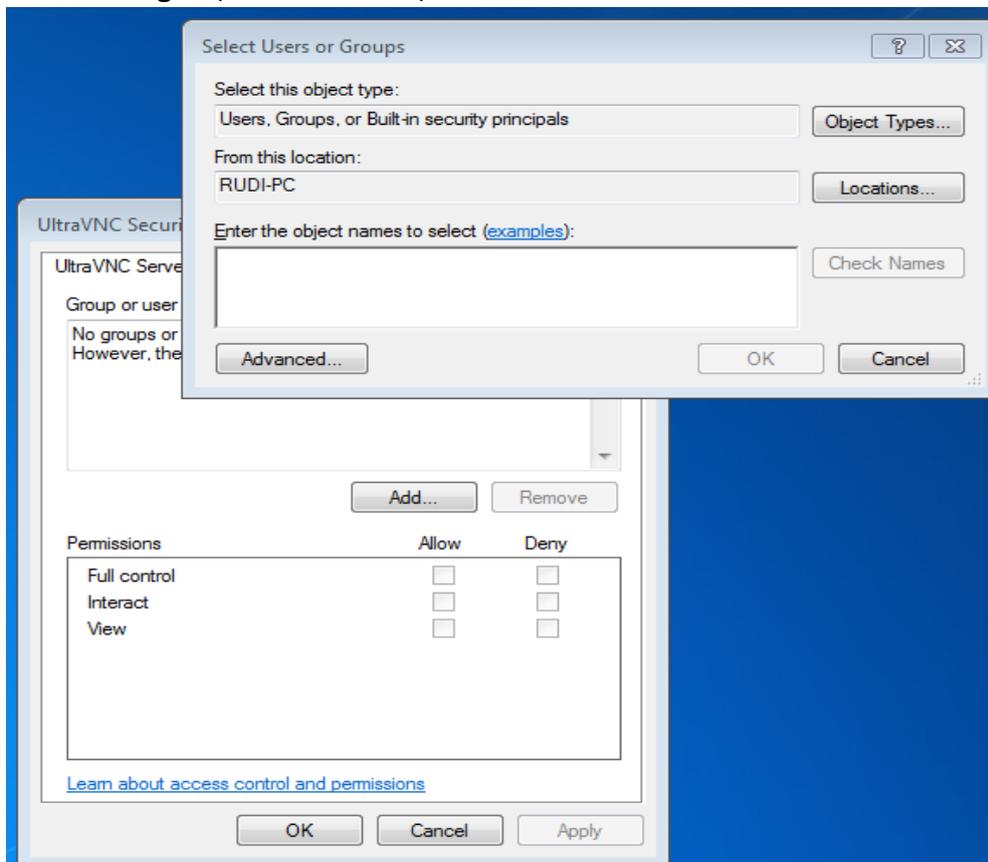
Permission is Actual given by setting a standard acl permission on a registry key
`Software\\ORL\\WinVNC3\\ACL`
You can define the users or groups that have full/View access.

File transfer

Enable: On/off
user impersonation: Copy as desktop user.
On: You have same permissions as the desktop user and can access his shares.
Off: You run as SYSTEM user, full access on system files, but can not access the desktop user mapped files. WARNING: off= full access, you can overwrite system files.

DSM plugin

If no plugin is installed, you get this
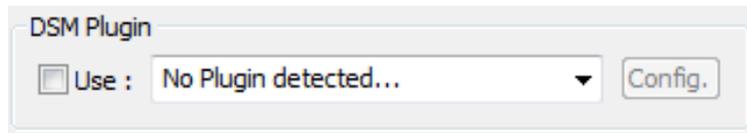
If a plugin is in the winvnc.exe folder, the plugins are listed
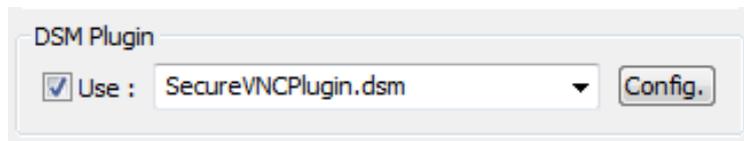
WARNING: plugins need to be of the same cpu arch as the exe.
X64 winvnc.exe require: SecureVNCPlugin**64**.dsm -> 64bit
X86 winvnc.exe require: SecureVNCPlugin.dsm->32bit
Wrong cpu arch
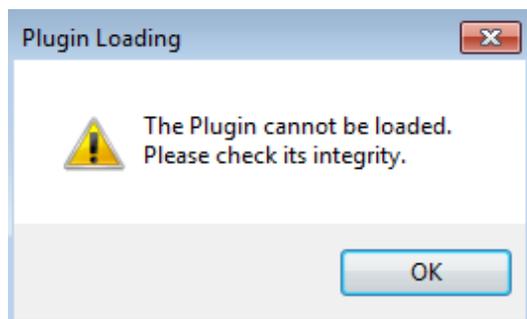
Config button: Plugin Settings
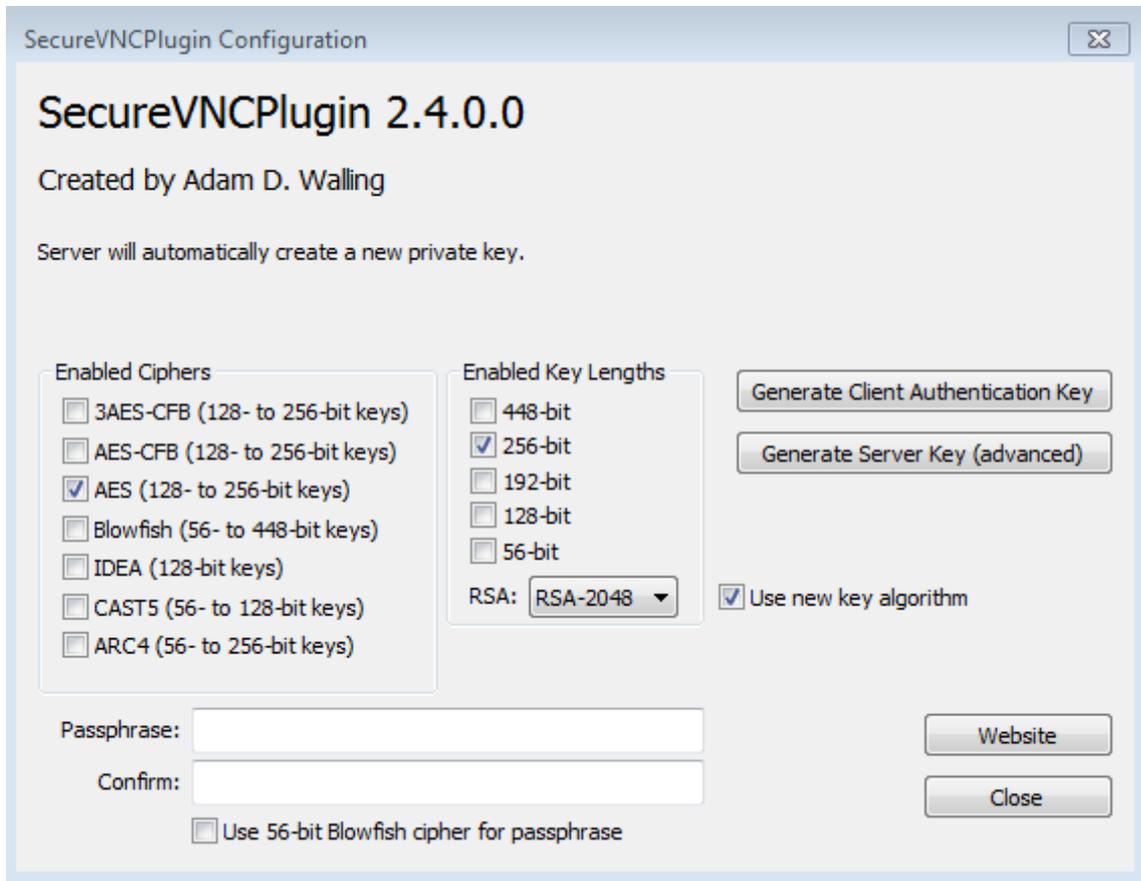
Passphrase: Vnc password is limited to 8 chars, using the plugin you can set a longer password.

Generate Client Authentication key:
You generate 2 keys
-20160123_Server_ClientAuth.pubkey
-20160123_Viewer_ClientAuth.pkey
The x_Server_ClientAuth.pubkey need to be in the same folder as winvnc.exe.
The x_Viewer_ClientAuth.pkey need to be in the same folder as vncviewer.exe

If you have multiple servers, make sure that you give them another x value.
(change 20160123 in 88888888). With the same name, the viewer keys would be overwritten.
The server pass the x value to the viewer on connection, and the viewer use the key with the string x.

When Last Client Disconnect

When Last Client Disconnects
- ◉ Do Nothing
- ○ Lock Workstation (W2K)
- ○ Logoff Workstation

WARNING: Sometimes the viewer need to reconnect when the logon screen is in another session the the console. In that case, setting logoff cause you to loop. Viewer logon and reconnect, but on disconnect vnc logoff again.

Keyboard and Mouse

Keyboard & Mouse
- ☐ Disable Viewers inputs
- ☐ Disable Local inputs
- ☐ Alternate keyboard method
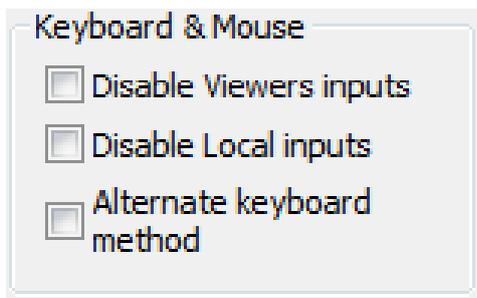
Disable viewer: you force view only
Disable Local inputs: Only viewer can access the pc while vnc is in use.
Alternate keyboard: Sometimes specials behave better with this method.

Quey on incoming connections

Query on incoming connection
- ☐ Display Query Window
  - Timeout: 10 seconds
- Default action: ◉ Refuse ○ Accept
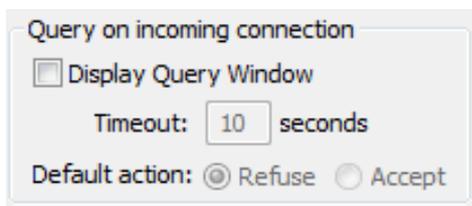
Display Query window: The user get a popup for X seconds. Then the user can refuse or allow access. This prevent that someone can vnc in your pc without giving permission.
Timout: time popup is visable
Default action: What todo after timeout

Multi viewer connections
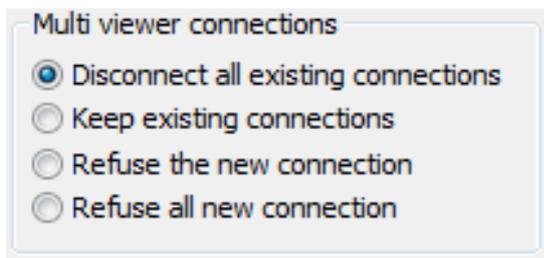
This are confusing parameters. The viewer can connect in 2 modes "shared" and "non shared". The first 3 are only for a "non shared" viewer connection. The " Refuse all new connections" is for shared and unshared viewer connections.

Misc
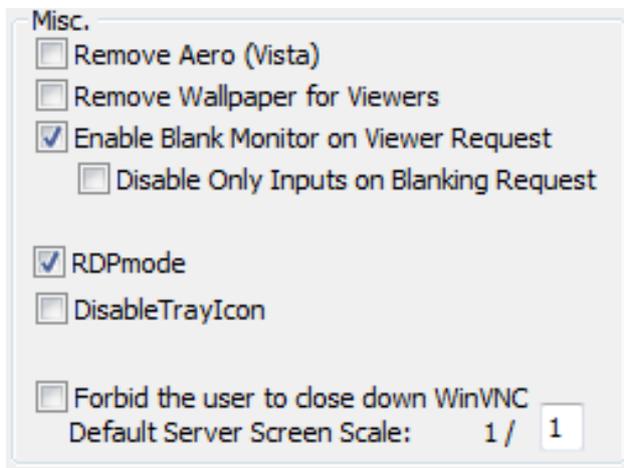
Remove aero: temp disable aero
Remove wallpaper: temp disable the wallpaper
This options are for slow networks, without aero and wallpapers you have less graphical data to send to the viewer.
Enable blank monitor: Pressing the blank button temp block server input and try to blank the screen. It depend on the OS and the power capability of the monitor and video card.
RDPmode: Normal vnc connect to the console, when rdp mode is enable, you get a preconnect screen that allow to select the console or active RDP session to clone.
Disable TrayIcon: Remove tryicon from systray
Default server scale: scaling the server data minimize the data send to the viewer. We actual scale the server. Less data to send and when the viewer is on a small screen, the viewer don't need to scale it down. Could be handy on small and low cpu viewers.

Logging
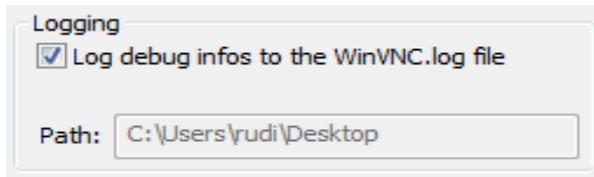
Properties (capture)
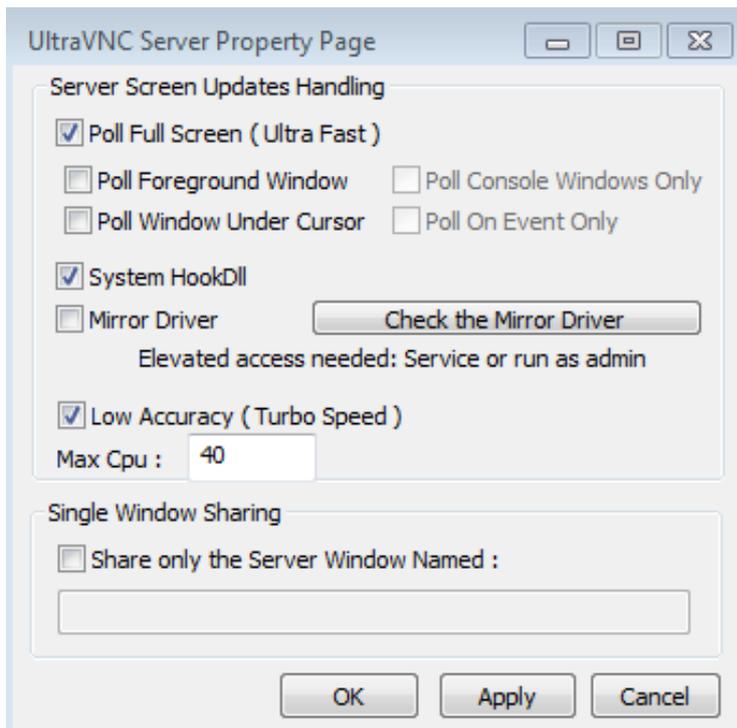
Server screen update Handling

Poll Fullscreen: Always on, can only be disabled when a mirror driver is used.
-**poll foreground**: Low cpu option, only forground screen, default off
-**poll window under cursor**:Low cpu option, default off
-**poll console windows only**: Low cpu option, default off
-**poll on event only**: Low cpu option, default off

System hookdll: This activate the vnchook.dll or schookdll. Vnchook.dll and schook.dll give hints about change screen positions.   From win8 we aclso activate the desktop duplication engine.
Mirror driver: A mirror driver is for XP till win7. It still works with windows 8, but no longer supported by MS. A mirror driver know the changed screen parts and give direct video memory access.

Low Accuracy: Don't scan all screen pixels but just one every 4 and change the offset each run.

Max Cpu: Vnc try to keep the cpu usage below this value by lowering the FPS and scan frequency.

Remark:

Desktop duplication engine (DDE) is as fast as the mirror driver and proper capture directx. A mrirror driver does the same for pre win8 OS's, but can not capture directx

XP-win7: you can use the mirror driver to give some extra boost, unless you want to capture directx data.

Win8: Don't activate the mirror driver, but use the building DDE. Only the bins compiled for win7> have this DDE embedded in the exe.

Best value in most cases
Poll fullscreen ON
System Hookdll ON
Low Accuracy ON
MAX Cpu 40

Single Window Sharing

Not used