# **Admin properties**

### Incoming connection

-Incoming Connect	tions	
Accept Socket	t Connect	tions
Display Number o	Display Number or Ports to use:	
◎ Display N°	0	
Ports Main:	5900	Auto
Http:	5800	
📝 Enable JavaVi	ewer (Ht	tp Connect)
Allow Loopbac	k Connec	tions
LoopbackOnly		

# 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

Authentication	
VNC Password:	••••••
View-Only Password:	•••••
Require MS Logon	(User/Pass./Domain)
New MS Logon	(supports multiple domains)
Config	gure MS Logon Groups

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 )

	Select Users or Groups		8 🖾
	Select this object type:		
	Users, Groups, or Built-in security principals		Object Types
	From this location:		
	RUDI-PC		Locations
UltraVNC Securi	Enter the object names to select ( <u>examples</u> ):		
UltraVNC Serve			Check Names
Group or user			
No groups or However, the	Advanced	ОК	Cancel
	-		
	Add Remove		
Permissions	Allow Deny		
Full control			
Interact			
view			
Learn about ac			
	OK Cancel Apply		

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**

File Transfer	
🔽 Enable	✓ User impersonation (for Service only)

#### 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

-DSM Plugin			
Use :	No Plugin detected	-	Config.

If a plugin is in the winvnc.exe folder, the plugins are listed

-DSM Plugin	I		
Vuse :	SecureVNCPlugin.dsm	•	Config.

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

SecureVNCPlugin Configuration		×
SecureVNCPlugin 2.4	1.0.0	
Created by Adam D. Walling		
Server will automatically create a new priv	vate key.	
Enabled Ciphers 3AES-CFB (128- to 256-bit keys) AES-CFB (128- to 256-bit keys) AES (128- to 256-bit keys) Blowfish (56- to 448-bit keys) IDEA (128-bit keys) CAST5 (56- to 128-bit keys) ARC4 (56- to 256-bit keys)	Enabled Key Lengths 448-bit 256-bit 192-bit 128-bit 56-bit RSA: RSA-2048	Generate Client Authentication Key Generate Server Key (advanced)
Passphrase: Confirm:		Website
🔲 Use 56-bit Blowfish cip	her for passphrase	

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 888888888). 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



**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 incomi	ng cor	nnection
Display Quer	y Win	dow
Timeout:	10	seconds
Default action:	@ Re	fuse 🔘 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

- Multi viewer connections
- Oisconnect all existing connections
- Keep existing connections
- Refuse the new connection
- Refuse all new connection

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

Misc.
Remove Aero (Vista)
Remove Wallpaper for Viewers
Enable Blank Monitor on Viewer Request
Disable Only Inputs on Blanking Request
RDPmode
DisableTrayIcon
Forbid the user to close down WinVNC Default Server Screen Scale: 1 / 1

#### 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 Traylcon: 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)**

UltraVNC Server Property Page 🗖 🖻 🖾
Server Screen Updates Handling
Poll Full Screen (Ultra Fast)
Poll Foreground Window Poll Console Windows Only
Poll Window Under Cursor Poll On Event Only
System HookDll
Mirror Driver Check the Mirror Driver
Elevated access needed: Service or run as admin
Low Acturacy (Turbo Speed )
w Low Accuracy (Turbo Speed)
Max Cpu : 40
Max Cpu : 40 Single Window Sharing
Max Cpu : 40 Single Window Sharing
Max Cpu : 40 Single Window Sharing
Max Cpu : 40 Single Window Sharing Share only the Server Window Named :

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