**CISTERA VNC SERVER (WINDOWS)**

This application was derived from TightVNC-2.8.5 which has been enhanced with encryption, Apple Bonjour, ffmpeg streaming and some more features.

**Platform:**

Windows 7+, Apple Bonjour SDK

**Compilation:**

Open CisteraVnc solution in Visual Studio.

Set tvnserver as startup project and compile.

Within the output binary folder the following files should be located:

|  |  |
| --- | --- |
| ***file*** | ***comment*** |
| tvnserver.exe | startup file |
| server\_certificate.pem | self-signed SSL certificate |
| server\_key.pem | self-signed SSL key |
| ffmpeg.exe | Version 20170904 for Win64. For Win32 it must be replaced with the respective 32bit version. Also, make sure that the clients use a compatible ffplay version. |
| libcrypto-1\_1.dll | taken from Win32OpenSSL-1\_1\_0f.exe package |
| libssl-1\_1.dll | taken from Win32OpenSSL-1\_1\_0f.exe package |

These files can be copied together to another folder for production use.

**Usage:**

Launch tvnserver.exe

Click on Cistera sys-tray icon and configure settings in the opened window.

In Server tab select mode CisteraVNC. (TightVNC mode makes the application work just like conventional TightVnc.)

In Mpeg Stream tab select source of the captured mpeg video.

Save settings.

Make sure firewall does not prevent the application from accepting network connections to Main server port which you’ve set.

Now Server is ready for operation.

**CISTERA VNC CLIENT (WINDOWS)**

**Platform:**

Windows 7+

**Compilation:**

Open CisteraVnc solution in Visual Studio.

Set tvnviewer as startup project and compile.

Within the output binary folder the following files should be located:

|  |  |
| --- | --- |
| ***file*** | ***comment*** |
| tvnviewer.exe | startup file |
| ffplay.exe | Version 20170904 for Win64. For Win32 it must be replaced with the respective 32bit version. Also, make sure that the server use a compatible ffmpeg version. |
| libcrypto-1\_1.dll | taken from Win32OpenSSL-1\_1\_0f.exe package |
| libssl-1\_1.dll | taken from Win32OpenSSL-1\_1\_0f.exe package |

These files can be copied together to another folder for production use.

**Usage:**

Launch tvnviewer.exe

Click Options button and select mode CisteraVNC. (TightVNC mode makes the application work just like conventional TightVnc.)

In Cistera Options group configure desired options.

|  |  |
| --- | --- |
| ***option*** | ***Comment*** |
| Encrypt data | If checked, all network data are encrypted. RFB data are encrypted with openSSL, mpeg stream is encrypted with ffmpeg. |
| Turn on Mpeg streaming | If checked, captured video is streamed by ffmpeg independently on RFB channel. |
| Turn off RFB video | If checked, Server does not update Client with RFB data in spite of keeping RFB connection. This option is ignored by Server when Mpeg streaming is off, so that RFB video will be always sent. |

Click OK.

Make sure firewall does not prevent the application from accepting network connections to Mpeg receiving port which you’ve set.

Set Remote Host and click Connect button.