

SUNDE

User's Manual

for

NetPoint2.2 & H4S

THANK YOU FOR PURCHASING SUNDE NETWORK TERMINAL. PLEASE READ THIS MANUAL CAREFULLY BEFORE USE.

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1. Introduction

SUNDE H4S Network Terminal is based on SOC with NetPoint2.2™ software. It is designed to work in client-server networks and depends primarily on the central server for data processing. Its main job is to convey input and output between the user and the remote server. By using SUNDE H4S Network Terminal devices, a great deal hardware cost can be saved, much less software support is required, much less power is consumed, little desk space is occupied, and much less e-waste is generated. Based on RDP, H4S has its unique Speed-Up technology which enables it to deliver smooth HD movie playback on end user's desktop.



H4S



1.1 Components

You can find the following items in the color box of the device:

1. H4S
2. Power Supply Adapter

Please check to see if any part is missing or physically damaged. Contact the dealer immediately if anything is missing or damaged. Save the packaging for future use.

For connecting H4S to the host (PC/Server), the following are essential:

1. An Ethernet RJ45 LAN port on the Host PC.
2. An Ethernet RJ45 cable of suitable length.
3. Ethernet switch or router is required to connect more than one Network Terminal or other network devices. Additional Ethernet cables will be required in this case.

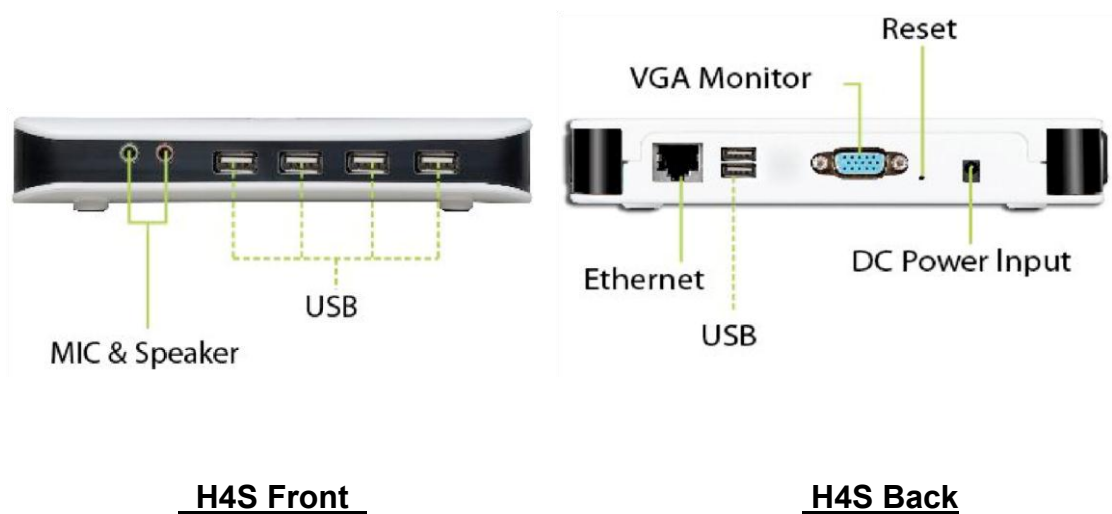


1.2 Recommended Server Configuration

You can find a detailed Server Configuration chart in H4S datasheet. Remember, the size chart is reference only. Since the workload may vary greatly in different environments, a test running is suggested if you need a more accurate server configuration data.



1.3 Connecting



STEP 1. Connect your Keyboard/Mouse/Monitor/Speaker or Headphone as shown in the picture:



STEP 2. Connect the Terminal to Host PC/Switch/Router using the Ethernet cable with RJ45 pins as shown below.



CAUTION
USE ONLY THE ORIGINAL
POWER
SUPPLY
ADAPTER

STEP 3. Connect the power adapter.



2. Software Installing



2.1 Installing NetPoint2.2 Software

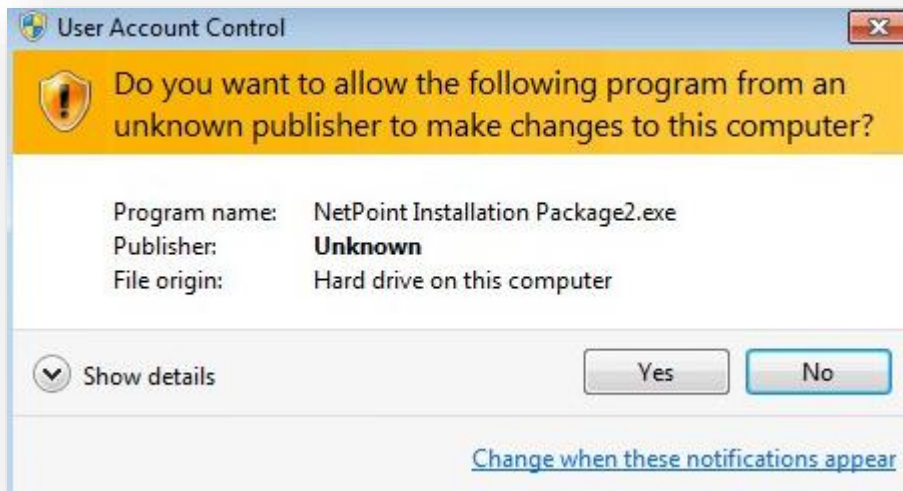
Prior to installing NetPoint2.2, please make sure to DISABLE or UNINSTALL any AntiVirus or Firewall software that may be running in the background. Some Security software may interfere with the installation and operation of NetPoint2.2. They can be enabled or reinstalled after the installation of NetPoint2.2.

Please visit <http://www.sundenc.com/support/download.html> for the latest version of NetPoint2.2.

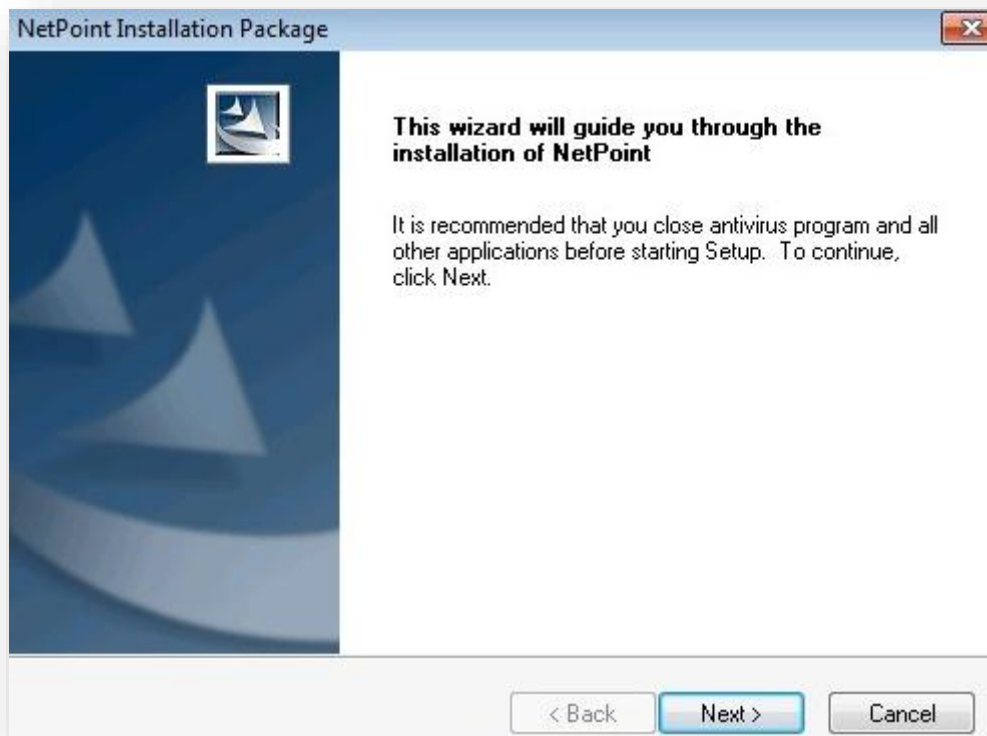
Find the location where you put “NetPoint Installation Package2”. In the example picture, it is put on the desktop of the host OS. Double click on it to run the installation.



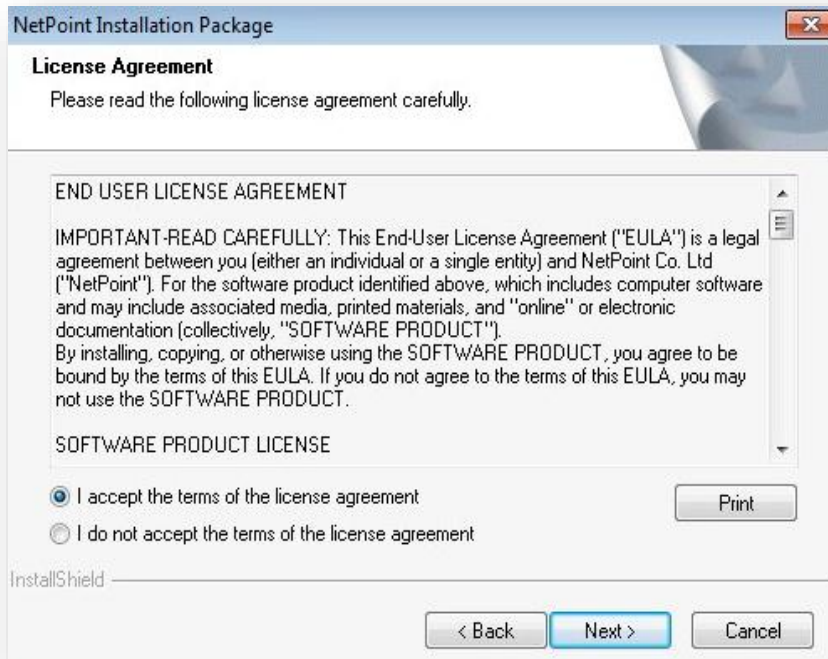
If below message pops up, choose “Yes” to continue:



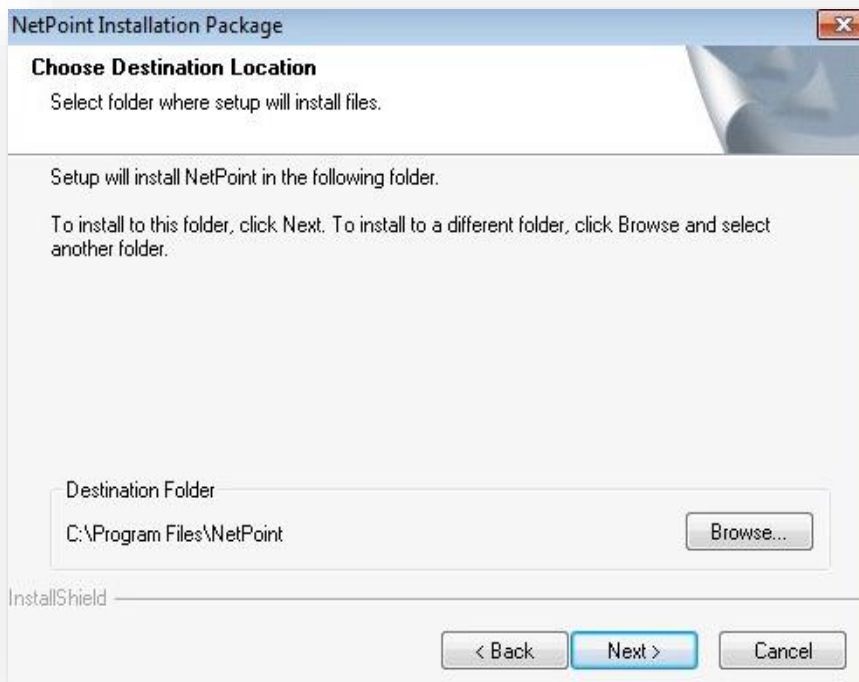
Click on “Next” to continue:



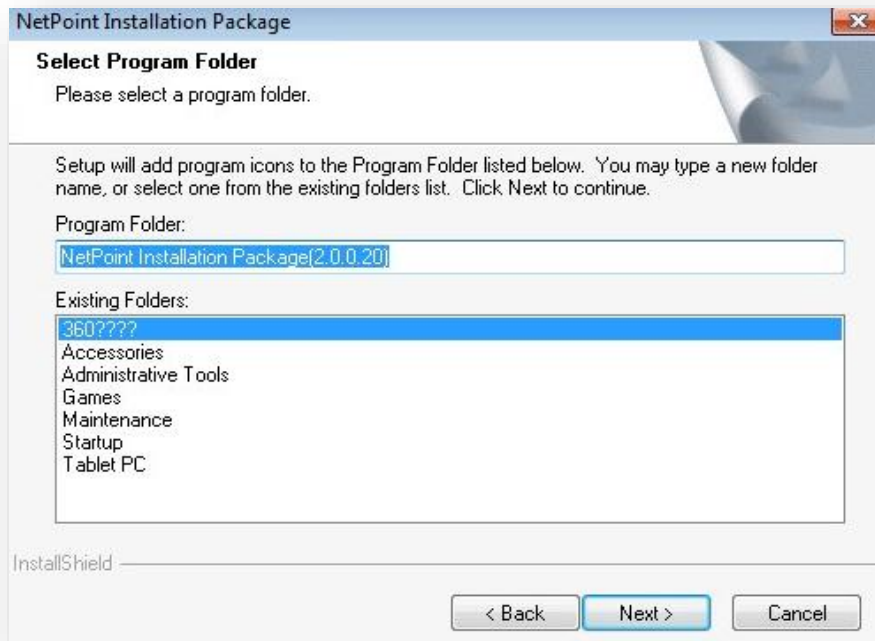
Choose “I accept the terms of the license agreement”:



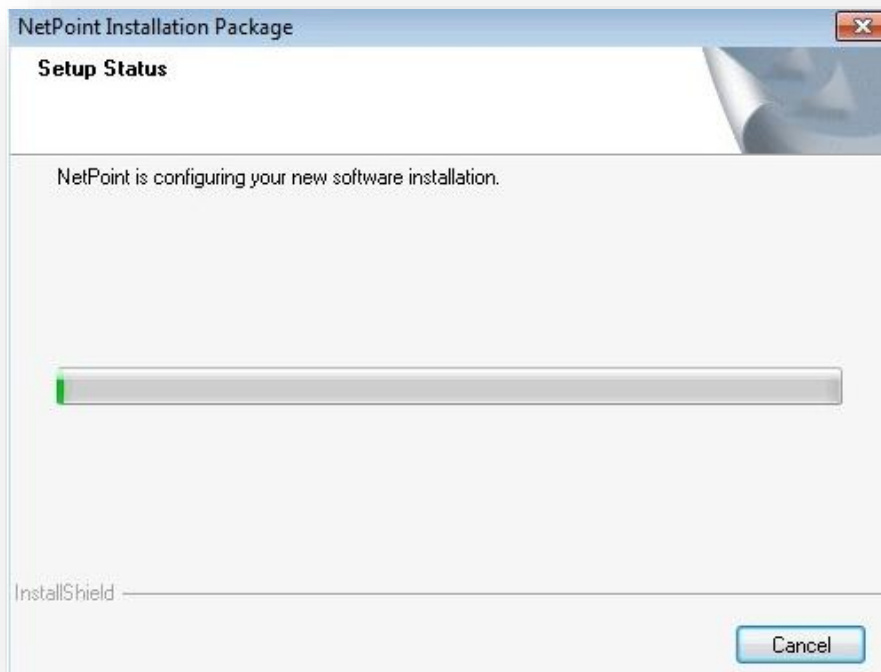
Choose the installation location. Use the default destination folder. Click on "Next" to continue:



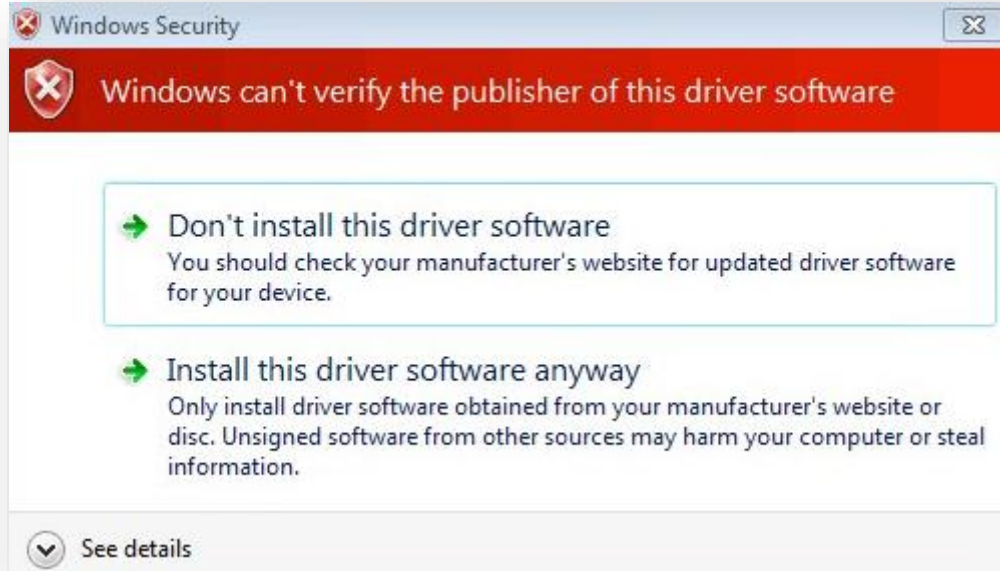
Keep the default. Then “Next”:



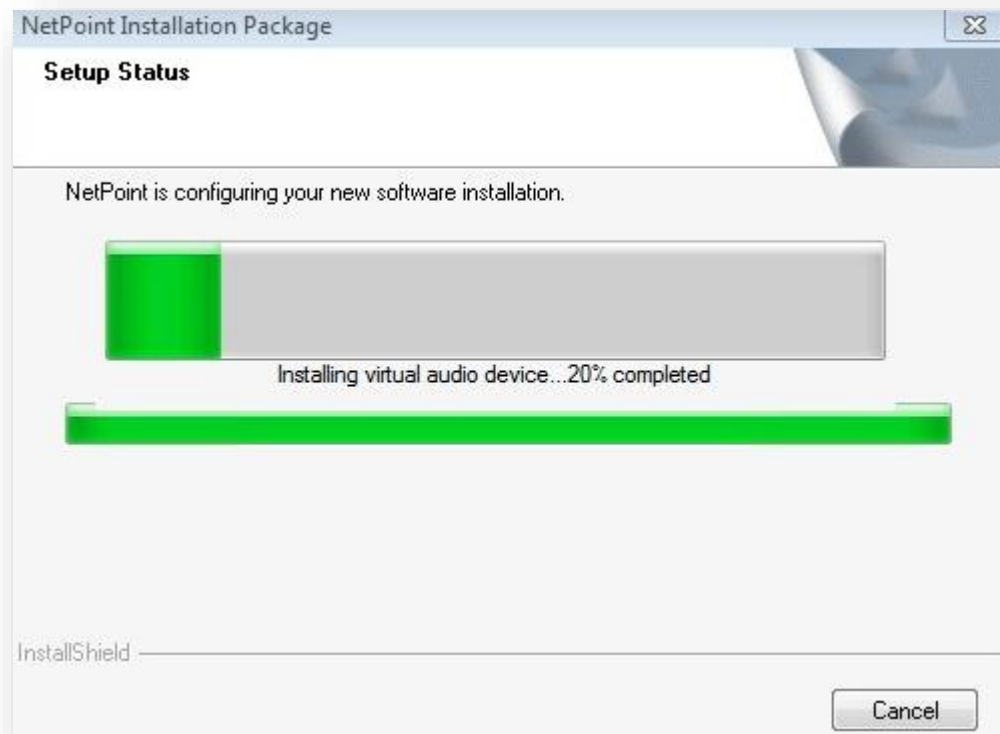
Now the software is installing:



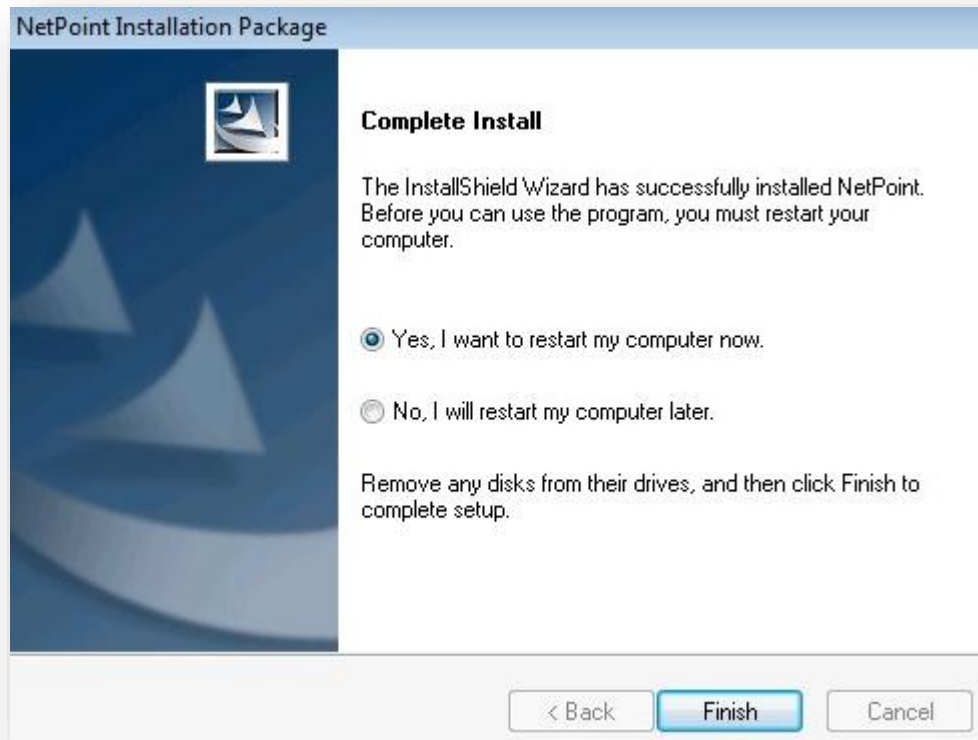
When this warning shows up, choose “Install this driver software anyway”:



Installing virtual audio device:



Installation is complete. Click “Finish” to restart the system:

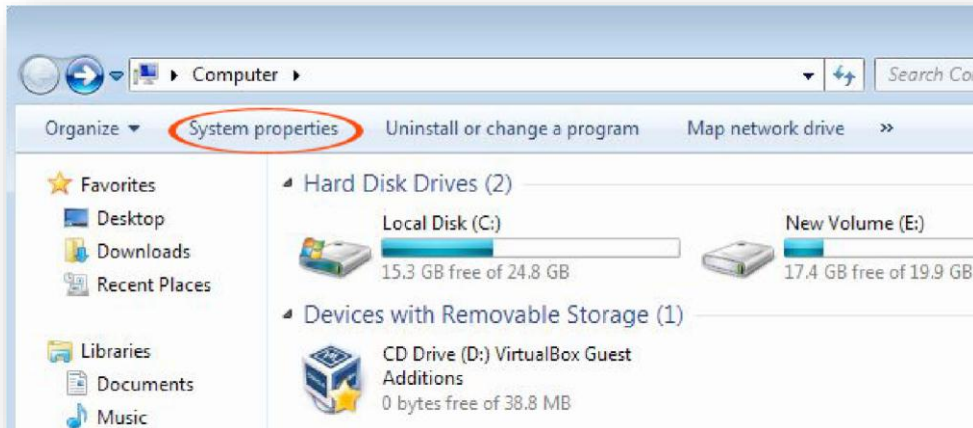




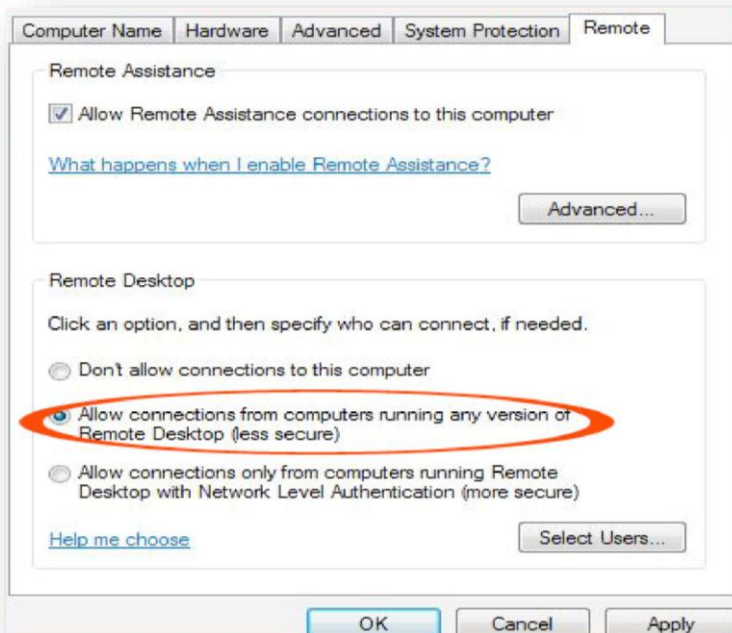
2.2 Enabling Remote Desktop

We need to set the system to allow Remote Desktop so that SUNDE terminal can log on the system remotely. Take Windows 7 as the example:

Go to “Computer”, then “System properties”.



In the new window, click on Remote, then choose “Allow connections from computers running any version of Remote Desktop”. Click on “OK” to save.



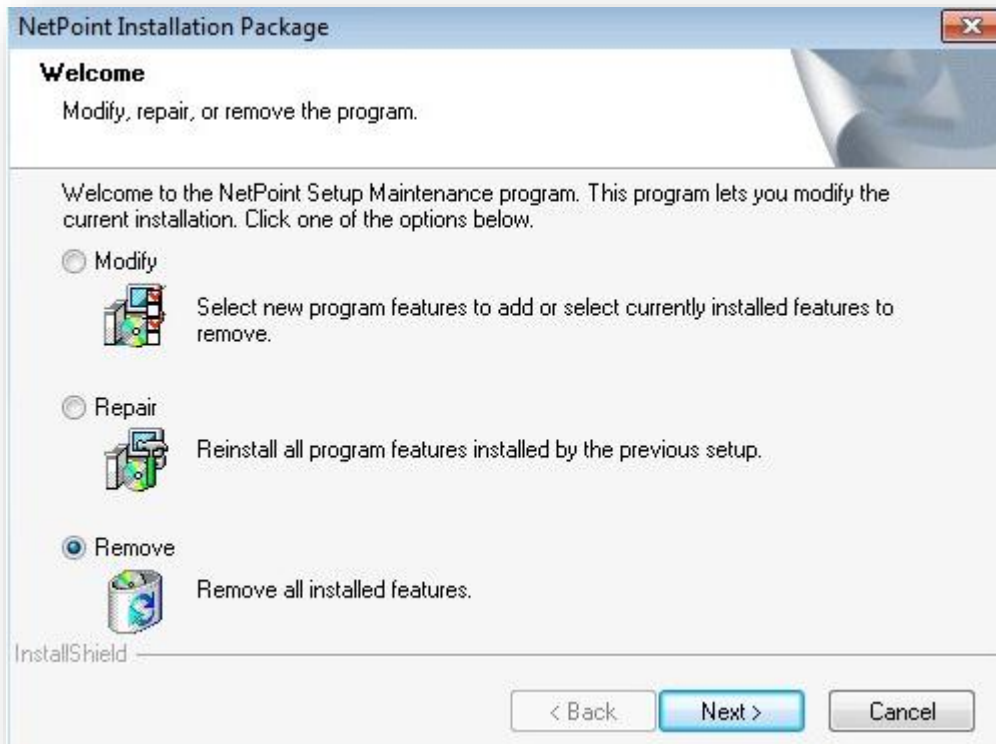


2.3 Uninstall NetPoint2.2 Software

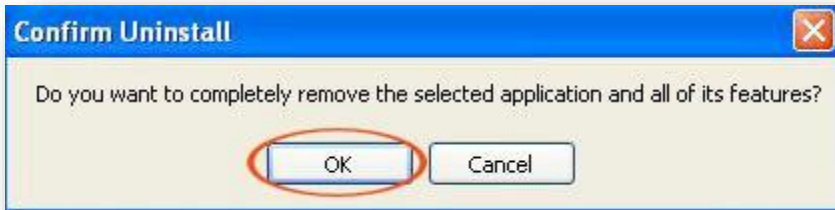
Click on the “NetPoint Installation Package2”:



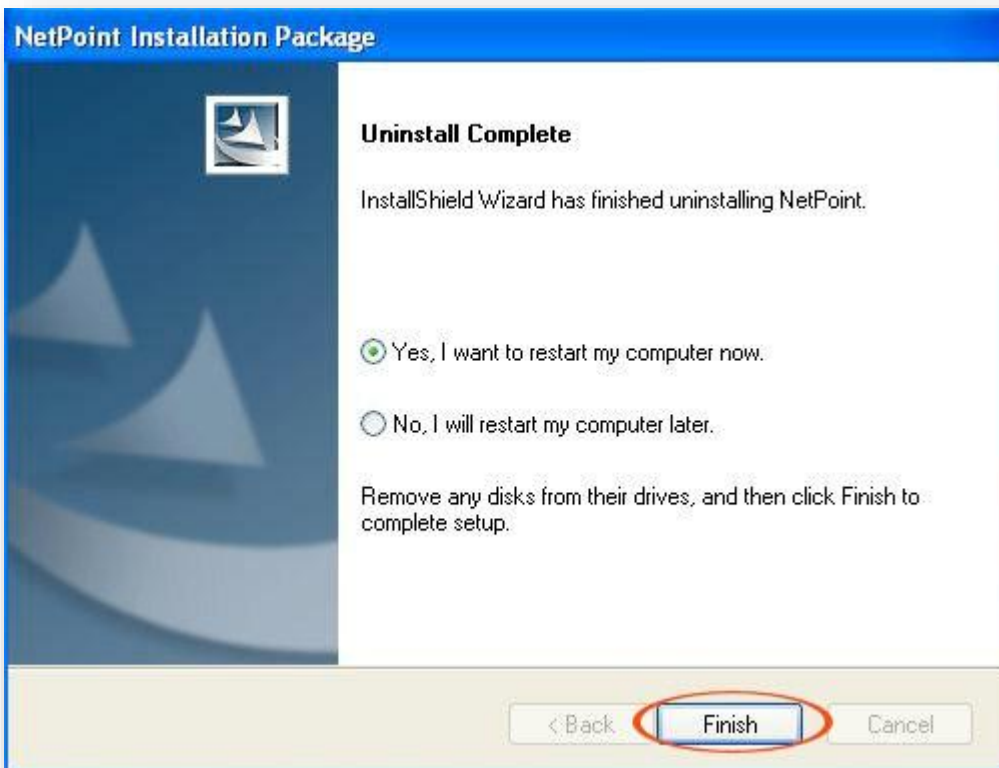
Choose “Remove” and then click on “Next” to continue:



When this pop up, choose “OK” to confirm uninstall:



When uninstall process is finished, click on “Finish” to restart the system:





3. Setting up H4S

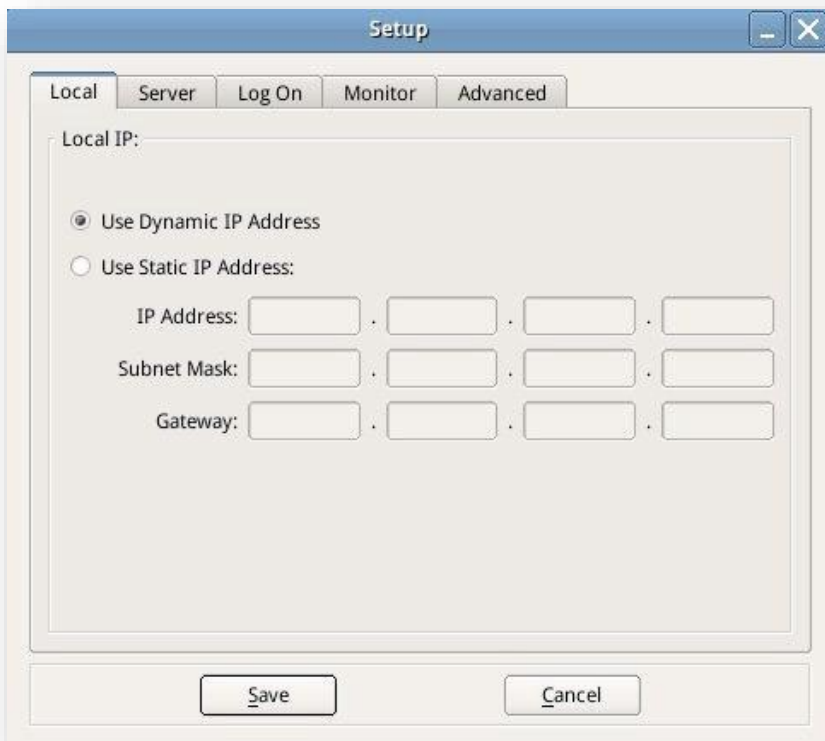
There are two kinds of IP addresses need to be set. One is terminal's Local IP, the other one is Server's IP.

3.1 Setting H4S IP Address

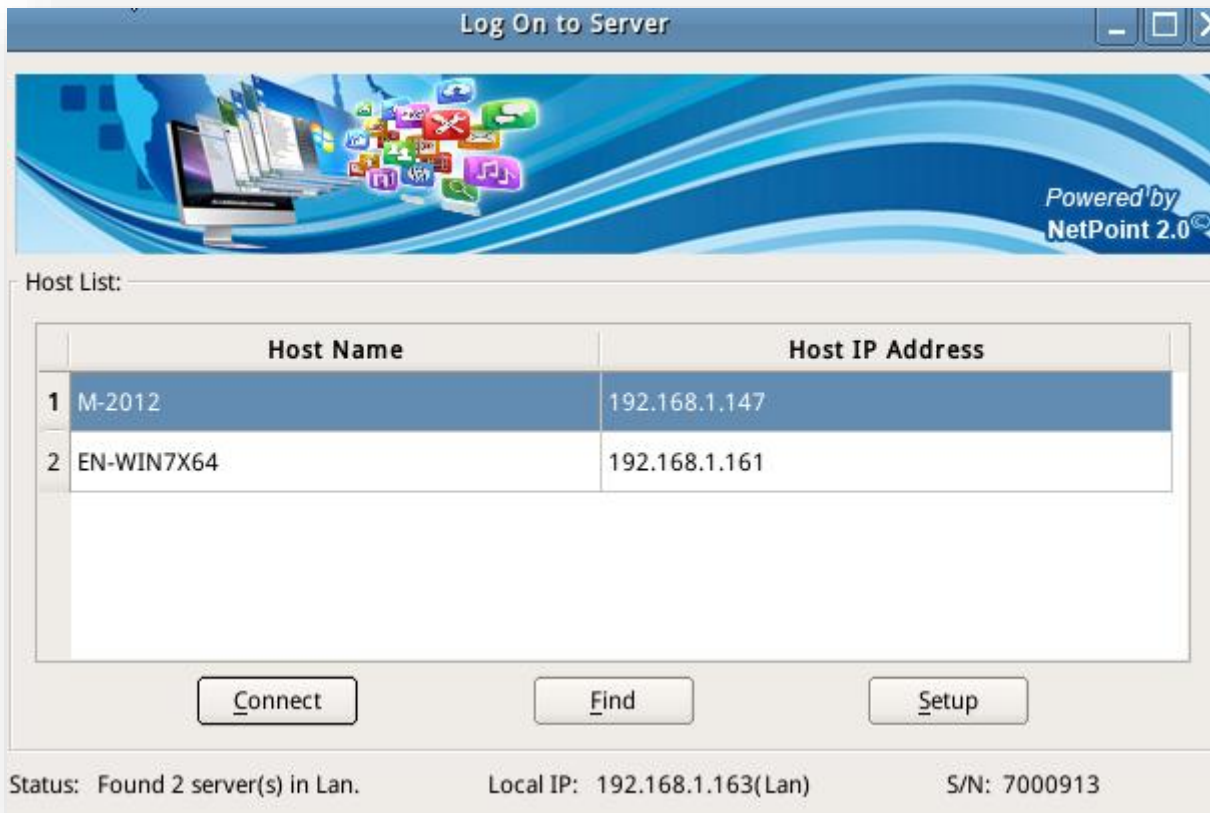
GET DYNAMIC IP ADDRESS FROM DHCP SERVER

"Dynamic Host Configuration Protocol" (DHCP) is an IP standard designed to reduce the complexity of administering IP address configurations. A DHCP server would be set up with the appropriate settings for a given network. Such settings would include a set of fundamental parameters such as the gateway, DNS, subnet masks, and a range of IP addresses. Using DHCP on a network means administrators need not configure these settings individually for each client on the network. The DHCP would automatically distribute them to the clients. When the network terminal is connected to a Network having a DHCP server, the settings for the Terminals would be as follows.

Click "Setup", select "Local" tab, and choose "Use Dynamic IP Address". Click "Save" to exit:



Then H4S will obtain an IP address from DHCP server, and when this is successful, it will search over the network for available Servers. Results will be shown in the “Host List



USE STATIC IP ADDRESS FOR THE TERMINAL

This would be an option exercised by users with no DHCP server environment. In a small office environment using less than 10 Terminals, this option would be more convenient.

Turn on the Network terminal.

Click the “Setup” In the “Local IP” ” tab, check “Use Static IP Address”.

1. IP Address: Give H4S an IP address of its own here. The easy way to do is to give it an IP address after adding 1 to the last number of IP address you gave to the Host PC. Then you can continue adding 2, 3... as you add more Terminals to the network. Each Terminal must have a Unique IP address.

2. Subnet Mask: For a C type IP address, normally it will be 255.255.255.0.

3. **Gateway:** Most often, this is the IP address of your Router.

The image shows a 'Setup' window with a blue title bar and standard window controls. It has five tabs: 'Local', 'Server', 'Log On', 'Monitor', and 'Advanced'. The 'Local' tab is active. Below the tabs, there is a 'Local IP:' label. Two radio buttons are present: 'Use Dynamic IP Address' (unselected) and 'Use Static IP Address:' (selected). Under the static IP option, there are three rows of input fields separated by dots. The first row is 'IP Address:' with values 192, 168, 2, and 220. The second row is 'Subnet Mask:' with values 255, 255, 255, and 0. The third row is 'Gateway:' with values 192, 168, 2, and 1. At the bottom of the window are two buttons: 'Save' and 'Cancel'.

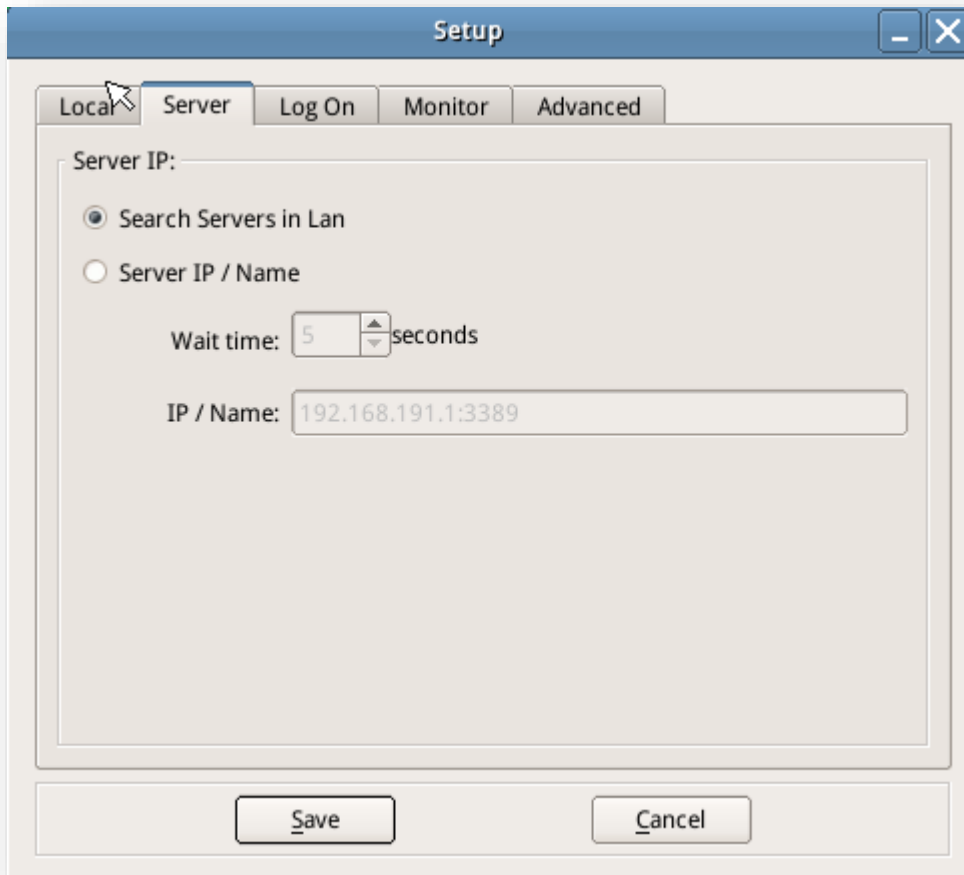


3.2 Setting Server's IP Address

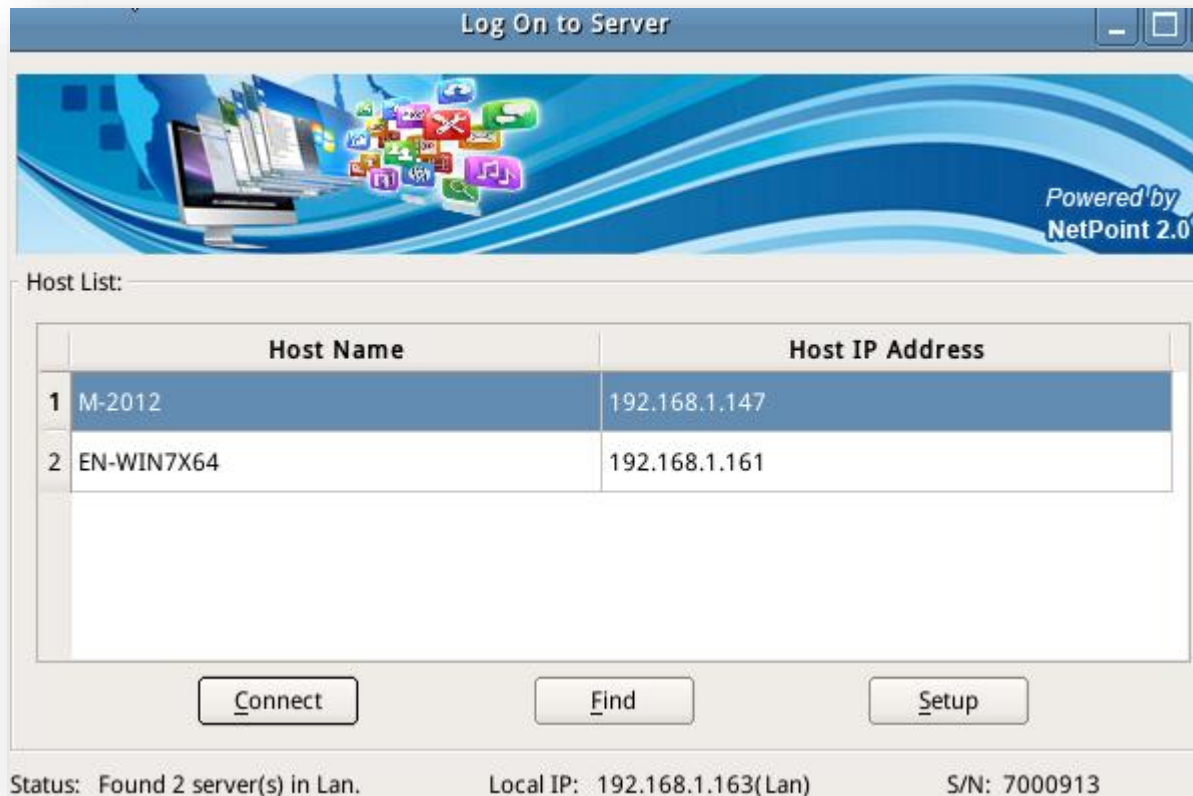
There are two ways to setup the server's IP address.

SEARCH SERVERS IN LAN

If the server is in the same subnet with the terminal, the terminal can search the network and find the server itself by set the server IP as "Search servers in LAN".



After save the settings, H4S will go back to "Host List" page, and then display all available servers (with NetPoint2.2) installed in the LAN.

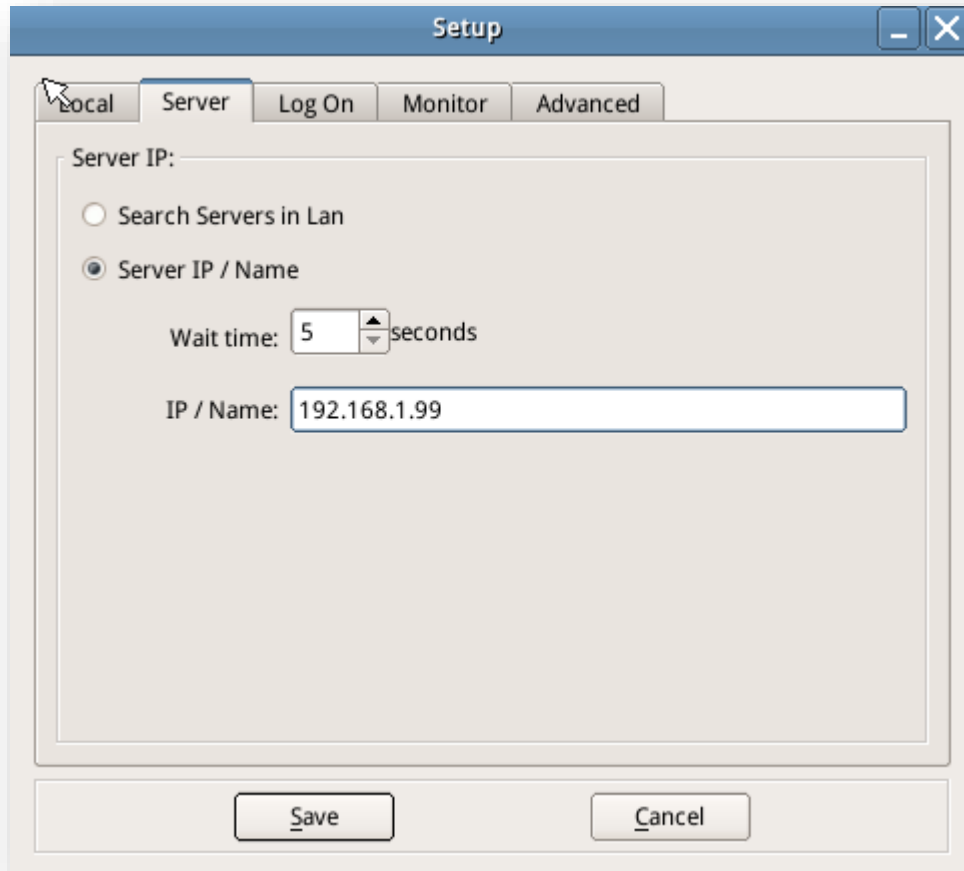


Now you can choose the right Host Server from the list and then click “Connect” button to connect.

USE STATIC IP FOR SERVER

You can setup the server using static IP address so that the terminal can logon the server directly after power on. For those Host servers that are not in the same subnet as H4S, you have to setup the IP address for the server in this way.

Please be aware that, if you are connecting a H4S to a Host with NetPoint2.2, only the IP address of the host need to be supplied. If you are using the H4S to connect a Host without NetPoint2.2, the IP address plus RDP port (3389 by default) have to be typed in (see chapter 5).



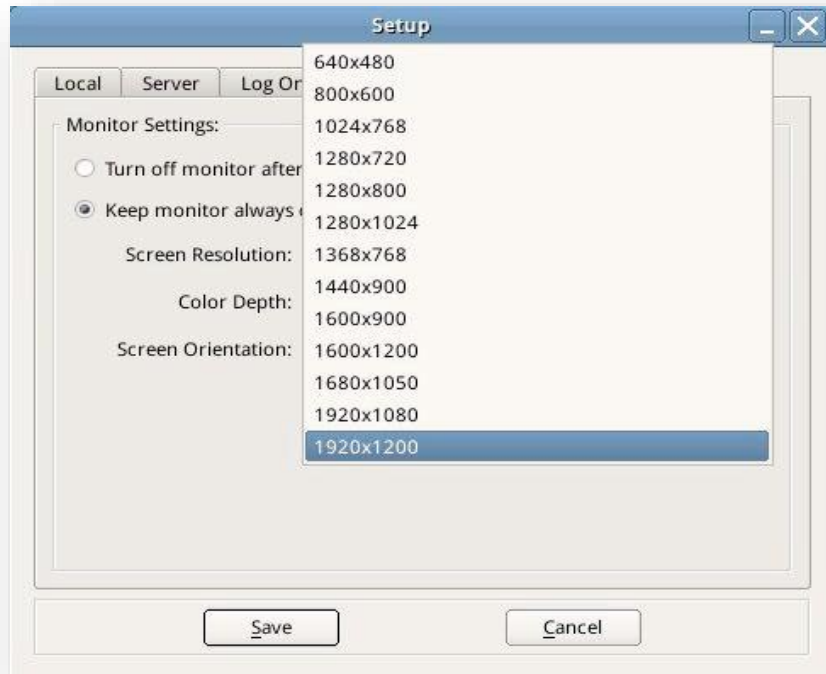
After save, the terminal will go to Host List page. After 5s counting down, H4S will try to connect to the designated Host server.



3.3 Setting Screen Resolution

H4S supports 13 monitor resolutions. Please choose the correct resolution which matches best with the monitor.

To change screen resolution: Click “Setup”, select “Monitor” tab. Under the “Screen Resolution” tab, select the desired screen resolution. Click “Save”.



On this “Monitor” tab, you can also set the monitor to “Turn off after 15 minutes” or “Keep monitor always on”:





3.4 Auto Logon

H4S can be set to log on the host directly when power on. That means you do not need to type in user name and password each time.

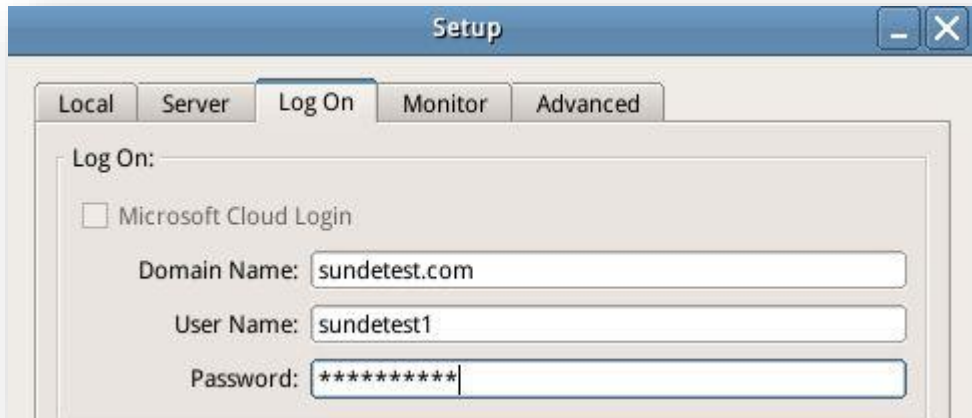
To set up H4S working in this way, the first step is to set H4S Server IP address as shown in the picture below.

The screenshot shows the 'Setup' window with the 'Server' tab selected. The 'Server IP:' section has two radio buttons: 'Search Servers in Lan' (unselected) and 'Server IP / Name' (selected). Below these is a 'Wait time:' field set to '5' seconds. At the bottom, the 'IP / Name:' field contains the value '192.168.1.99'.

After that, go to “Log On” page:

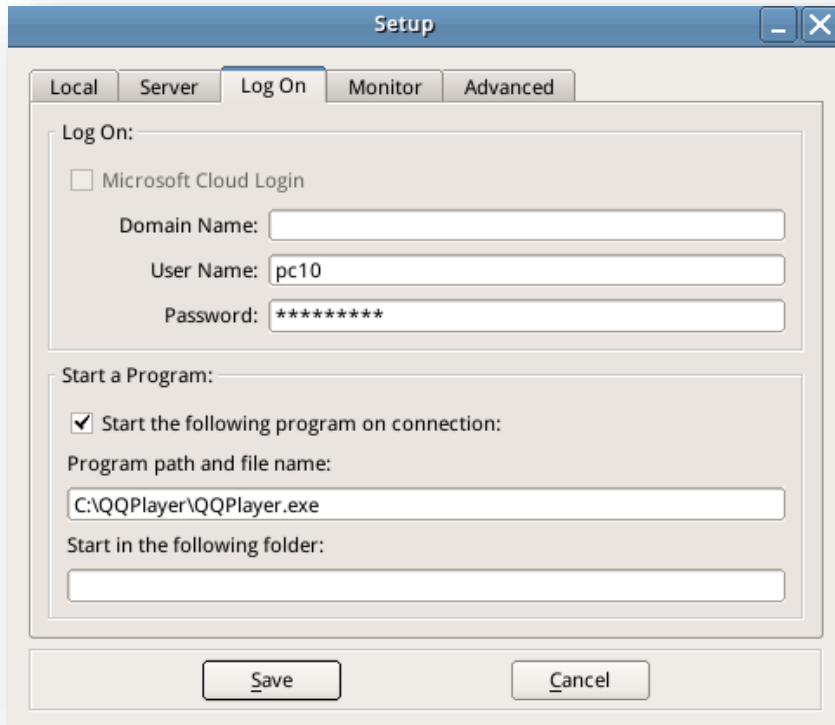
The screenshot shows the 'Setup' window with the 'Log On' tab selected. The 'Log On:' section has a checkbox for 'Microsoft Cloud Login' (unchecked). Below it are three text input fields: 'Domain Name:', 'User Name:', and 'Password:'. At the bottom, the 'Start a Program:' section has a checkbox for 'Start the following program on connection:' (unchecked).

Type in User Name and Password. As for “Domain Name”, if H4S is being used in an Active Directory (Domain) environment, type in the Domain Name. Otherwise, just leave it open.



Save the settings, and the H4S will go back to Host List page, start counting down and then log on the Host automatically using the specified username and password.

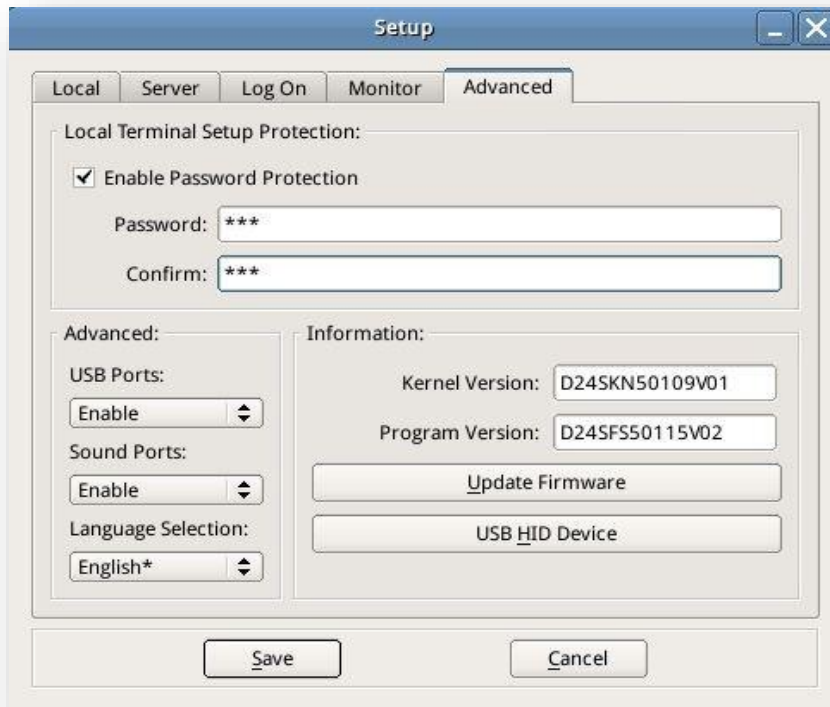
If you want a certain program will run or a folder will open automatically when H4S set to auto Log On, check the “Start the following program on connection” and type in the full path of the program location.





3.5 Advanced Settings

To access “Advanced Settings” of H4S, click “Setup”, select “Advanced” tab. Here we can set up for H4S “Password Protection”, “Firmware Update”, “USB ports”, “Sound Ports” and “Language”.



USB Ports

Here you can choose to enable or disable USB ports for USB devices like USB flash drive, USB printer, etc. USB mouse and keyboard are not affected.

Sound Ports

You can choose to enable or disable SOUND function of H4S, both audio output and MIC input.

Language Selection:

Here you can select the language you prefer.

Setting Password

Password can be set to protect the settings of H4S. When password protection is enabled, you need to supply the correct password before you can access the settings page of H4S. To enable password protection, check "Enable Password Protection", type in the password that you are going to set, and then click "Save". When the below message pops up, click "OK" to take effect.



Firmware Update

The final part of "Advanced" setting page shown the firmware information of H4S. Here you can also update firmware of H4S. There are two ways to apply the update: by TFTP server or by USB flash drive. We have a manual on how to update firmware for SUNDE terminals by TFTP server, please refer to this manual if you want to update firmware by TFTP server. If you choose to update by USB flash drive, please copy the "n2update" folder containing firmware files (.enc / .bin) to the root of USB flash drive.

After that, plug the USB drive to H4S, and click "Update Firmware":







4. Functions of NetPoint2.2 Manager Console

4.1 Terminal Information

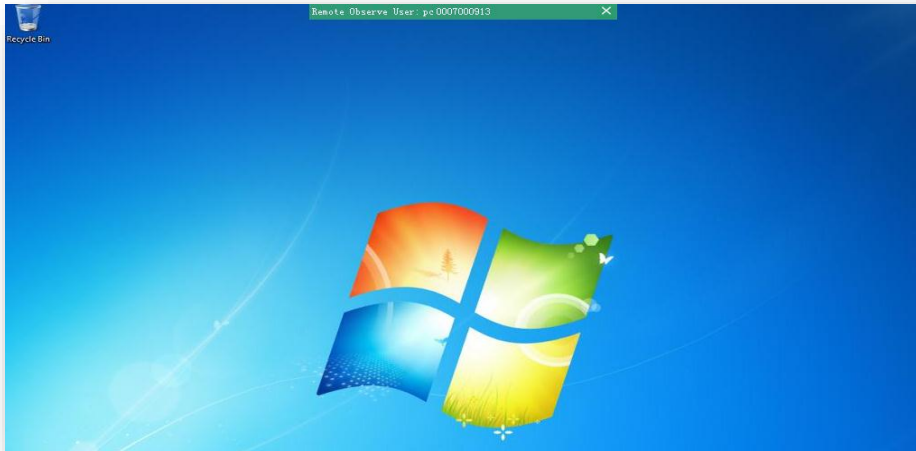
In the NetPoint 2.2 Console, click on “Terminal”, and the console will list all H4S terminals. When click to select one H4S terminal, the desktop of this H4S will be shown in the middle. Down to the bottom, two options are available. “Information” displays H4S serial No., IP address, status, server IP and user account name.



4.2 Monitoring

In the terminal page, a mini window of the corresponding H4S user is shown in the middle. On the right, 3 options “Monitor”, “Message” and “Logout” are available. Use “Monitor” option to have a full screen of monitoring user’s desktop, “Message” to send message to user’s desktop, and “Logout” to log out the user from the Host.

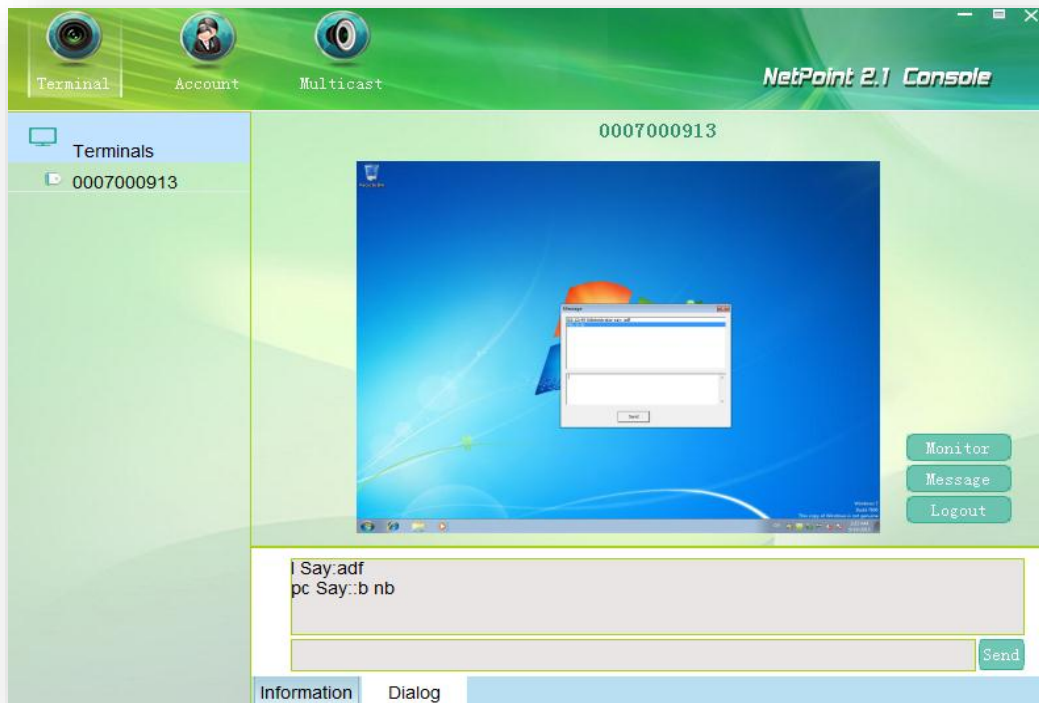
Monitoring Window:



User can use this monitoring function to monitor and control other accounts' desktop on condition that the user must be the account "Administrator" and have logged in remotely.

4.3 Send Message

In the terminal page, click on "Dialog" and you can see the txt space for typing in message. Type in your message, and then click "Send".



4.4 Account

We can use the “Account” function of NetPoint Console to set up user accounts for H4S users.



Creating New Accounts:

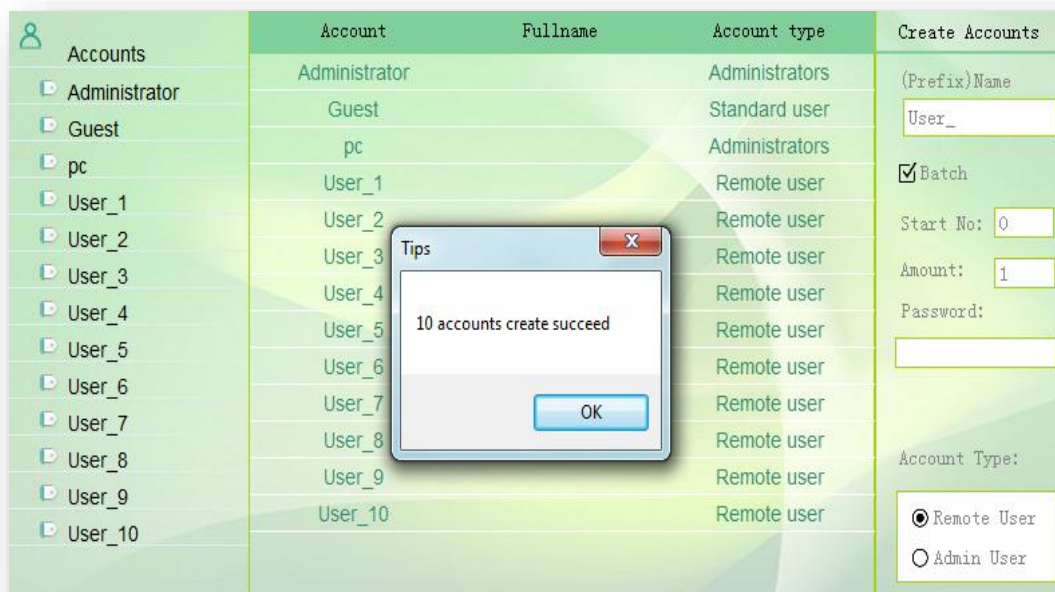
This is a close-up of the 'Create Accounts' form. The '(Prefix)Name' field contains 'User_'. The 'Batch' checkbox is checked. The 'Start No:' field contains '0' and the 'Amount:' field contains '1'. The 'Password:' field is empty. The 'Account Type:' section has 'Remote User' selected. A 'Create' button is at the bottom.

Creating one

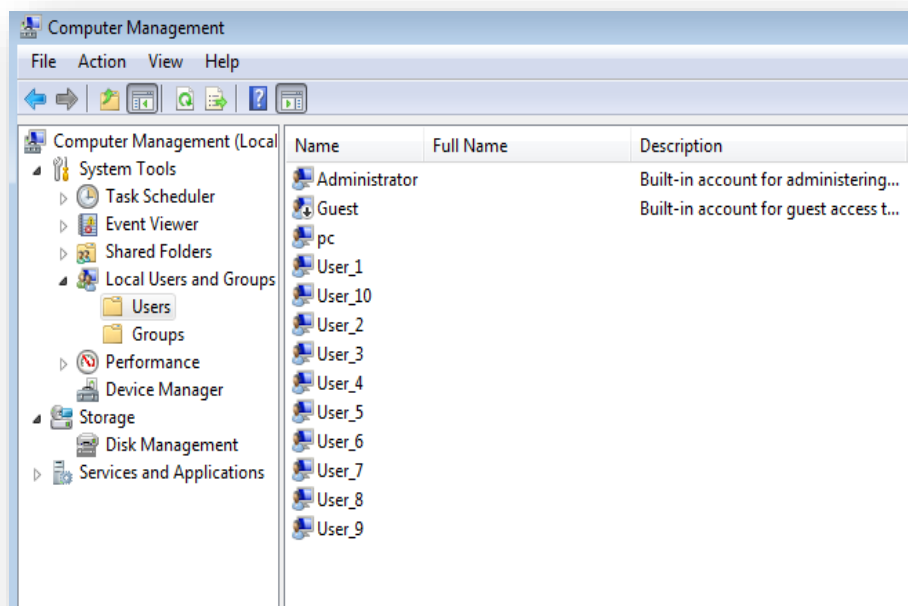
This is a close-up of the 'Create Accounts' form. The '(Prefix)Name' field contains 'User_'. The 'Batch' checkbox is checked. The 'Start No:' field contains '1' and the 'Amount:' field contains '10'. The 'Password:' field contains a masked password. The 'Account Type:' section has 'Remote User' selected. A 'Create' button is at the bottom.

Creating multiple

When finished:



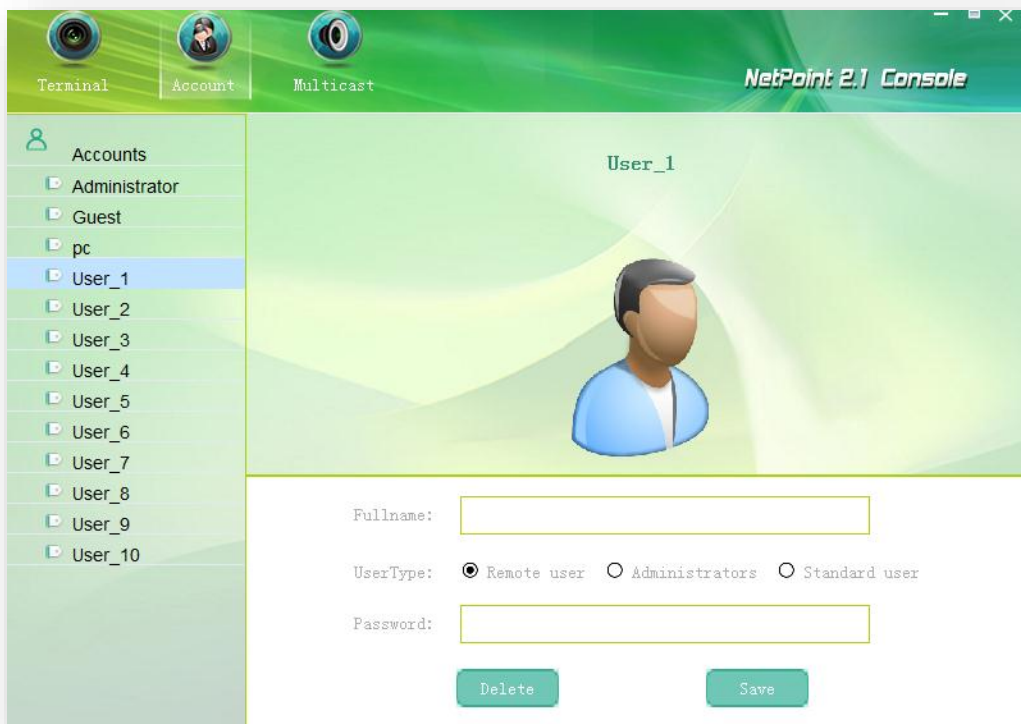
There two types of accounts can be created: Remote User (RDP) and Administrator. Now, we can go to the “Local Users and Groups” to check if the creation of Windows user accounts is successful.



List of Accounts:



We can also make amendments to accounts or delete accounts:



4.5 One-Key Broadcasting Function:

The One-Key Broadcasting Function is a very unique function:

When Teacher H4S is input with key combination “Ctrl+Alt+F10”, the full desktop image of the Teacher will be broadcasted to all other H4S (students) that are connected to the same host as Teacher H4S. Audio is broadcasted at the same time.

Note: the teacher account type must be “Administrator” and can be done only through H4S



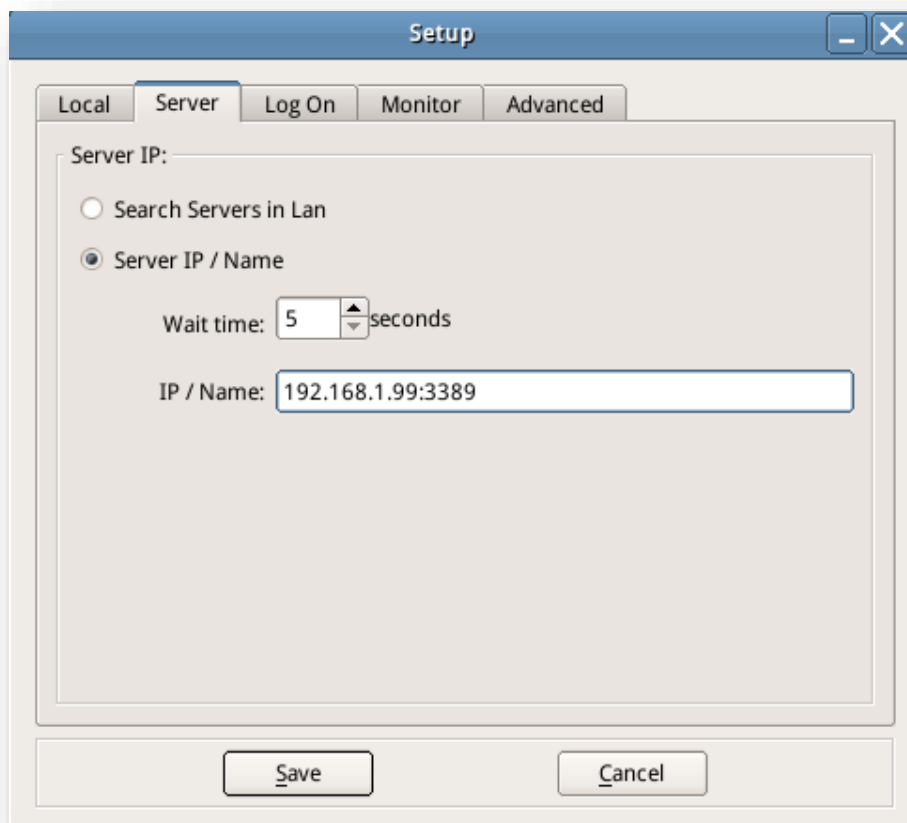
5. H4S Connecting to Windows or Linux without NetPoint2.2

H4S can also work alone without NetPoint2.2 being installed in the Host. In this way, H4S works as same as SUNDE another model H4, which means that the connection between H4S and the host is purely RDP, with no HD video acceleration.

Steps to set H4S working without NetPoint2.2:

Step1, make sure that the Host RDP (Windows) or XRDP (Linux) is enabled.

Step2, go to Settings of H4S. In the server page, type in Server IP plus RDP port number. For example, 192.168.1.99:3389.



Note: 3389 is the default port of RDP which can be changed manually.

Save the settings, then H4S will start to connect to Host. When connection is successful, users can make use of the RDP session desktop, but with **no sound** and **no support of other USB devices except USB flash drive**.

5.1 How to Mount USB Flash Drive in Linux

When H4S is connected to a Linux host, its user can plug in USB flash drive to the H4S and use it in the Linux system by typing some commands.

The command is: ***sudo mount //ip address of H4S/UDisk-0serial number of H4S /mnt -o username=root***

The below screen shot is an example as in Ubuntu host. “192.168.1.139” is IP address of the H4S.

“7000415” is the serial number of the H4S (remember to add one “0” before the serial number. The serial number of H4S can be found on its product label).

```
x - + sunde@ubuntu: ~
sunde@ubuntu:~$ sudo mount //192.168.1.139/UDisk-07000415 /mnt -o username=root
[sudo] password for sunde:
sunde@ubuntu:~$ █
```

When the mounting process is successful, we can type in “ls /mnt” to check the result:

```
x - + sunde@ubuntu: ~
sunde@ubuntu:~$ ls /mnt
1.cmd
ChromeStandaloneSetup.1408587465.exe
D24SFS50304V06.enc
D2hyFS50126V30.enc
D2hyFS50518V35.enc
directx_9.29.952.3111.3613753789.exe
dotNetFx40_Full_x86_x64.exe
ftdi_usb_21200_x32.exe
H4hyFS2015V04U.enc
iso
n2update
netpoint
netpointupdate
System Volume Information
sunde@ubuntu:~$
teraterm
v2update
v2update-bak
v2update.zip
vpoint
vpoint2update
vPoint Guest Installation Package54.exe
vPoint Guest Installation Package.exe
vPointInstallationPackage1.1.0.30.exe
vpointupdate
yin.cmd
文档
极域
软件
```