



How to use ONVIF Test Tool

Version: 2.0

Date: 2020-03-10

IPv6 Environment Setup

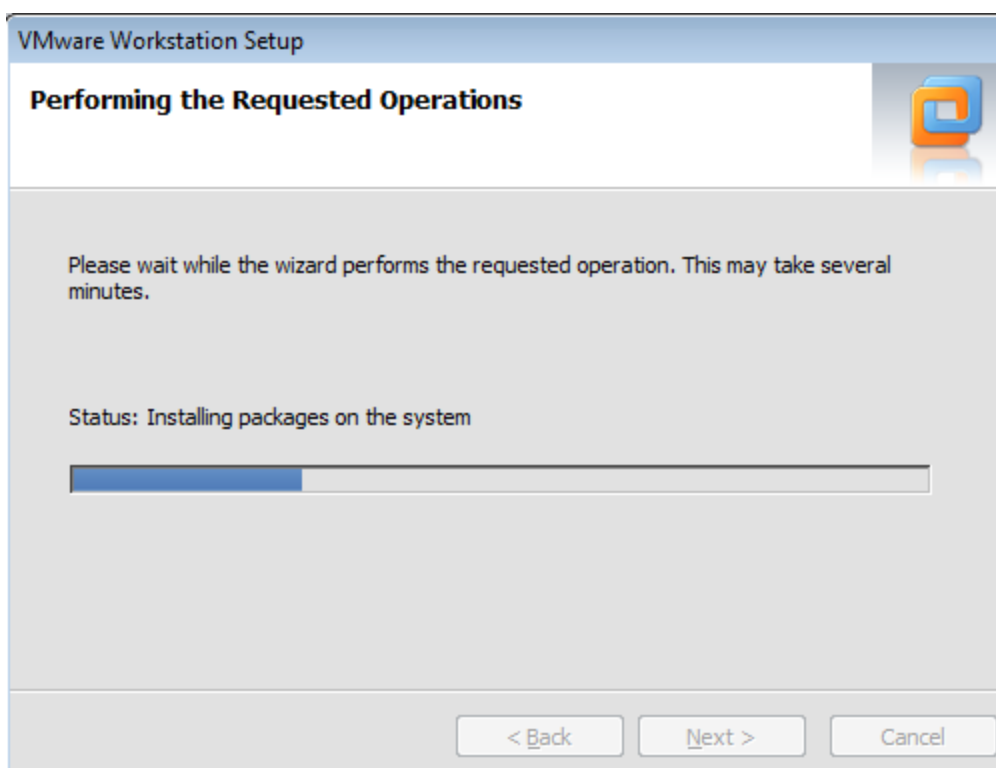
Note:

This part is mainly for passing the test of IPv6 function, and the environment is just our suggestion, you can surely refer to the ONVIF DEVICE TEST TOOL INSTALLATION GUIDE which you can get when you download the tool.

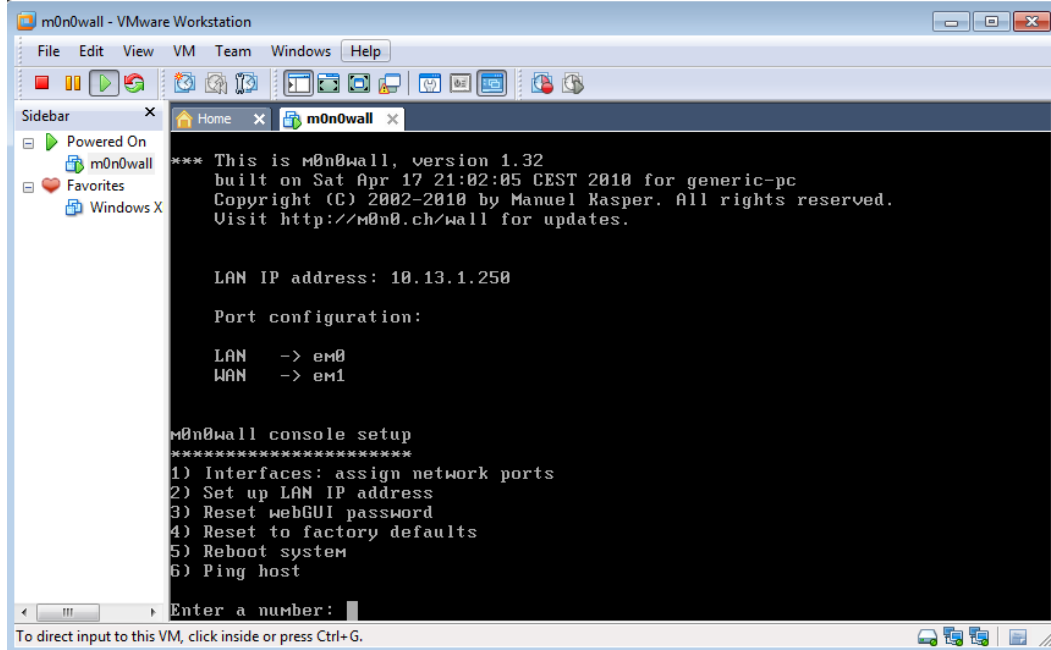
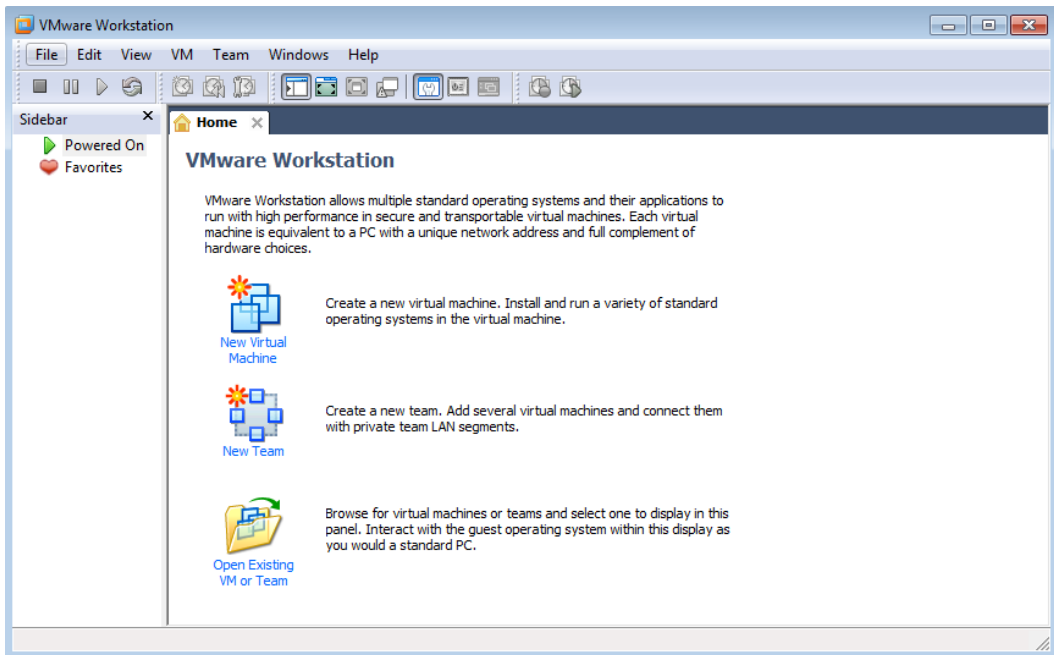
You may need to download clients as below to finish this part:

- VMware;
- m0n0wall;

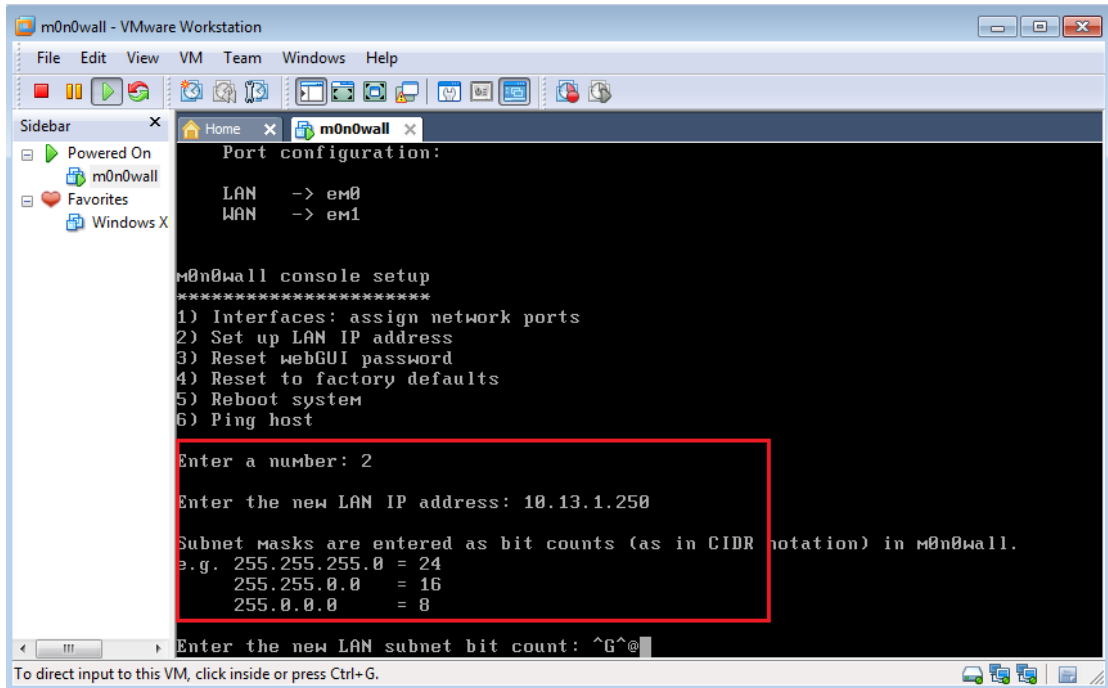
1. Download VMware Workstation from official website and install it on your PC, here we take VMware-workstation-full-7.1.3-324285 as example



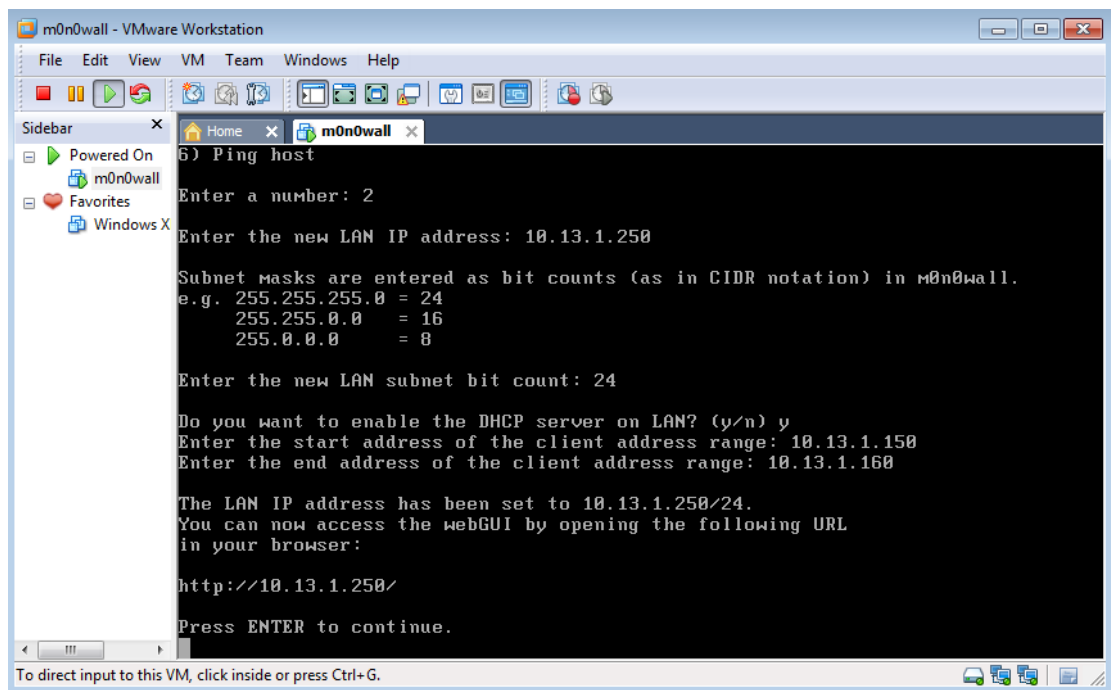
2. Download m0n0wall and install it, here we use generic-pc-1.32-vm.zip
3. Open m0n0wall.vmx with WMware program and click power on



4. For the first time setup, follow the instruction appeared to set an IP address for the m0n0wall, Enter 2 for IP address setting.



5. Enter **24** to set the DHCP IP segment
6. Press **Enter** to finish the setup



7. Open the IE browser on the host computer and input IP address of m0n0wall
8. Login with default account: admin/mono
9. Go to System > Advanced and check the checkbox of Enable IPv6 support and Save

System: Advanced setup

Note: the options on this page are intended for use by advanced users only, and there's **NO** support for them.

IPv6 support

Enable IPv6 support
 After enabling IPv6 support, configure IPv6 addresses on your LAN and WAN interfaces, then add IPv6 firewall rules.
 Note: you **must set an IPv6 address on the LAN interface** for the IPv6 support to work.

Save

Filtering bridge

Enable filtering bridge
 This is no longer available because it is not applicable with `if_bridge`, the new way of bridging in FreeBSD. Filtering always occurs on the member interfaces of the bridge. It is retained here as a notice for those accustomed to using this option.

Spoof Checking

Disable Spoof Checking on bridge
 Spoof Checking blocks packets not sourced from the subnet of the interface the packet was received on.
 This option only affects bridged interfaces.

Save

10. Go to Interfaces>LAN and set the LAN IPv6, Check IPv6 Router Advertisements and Save

Interfaces: LAN

Primary configuration **Secondary IPs**

IP address 172.6.19.202 / 24

IPv6 mode static
 Choosing 6to4 on the LAN interface will make it use the first available /64 prefix within the WAN interface's 6to4 prefix (which is determined by its current IPv4 address).

IPv6 address 2001:1:1:1:1:1:1:1 / 64
 Using a number less than /64 will cause RAs not to be announced as there aren't enough subnet bits. i.e. /48

Suggested IPv6 address Router advertisements are not enabled on WAN interface.

IPv6 RA

Send IPv6 router advertisements
 If this option is checked, other hosts on this interface will be able to automatically configure their IPv6 address based on prefix and gateway information that the firewall provides to them. This option should normally be enabled.

Managed address configuration
 If this option is checked, other hosts on this interface will use DHCPv6 for address allocation and non address allocation configuration.

Other stateful configuration
 If this option is checked, other hosts on this interface will use DHCPv6 for non address allocation configuration, such as DNS.

Save

Note:
 The IPv6 address is not specific, the number behind "/" means during the whole test,

this certain bit of the address is fixed, in the example on the snapshot, the number is 64 mean the former 64 bit is fixed and it is always be 200:1:2:3, and you can set the number as you wish

The test device, main host, and m0n0wall need to in the same LAN.

ONVIF Test Tool Setup

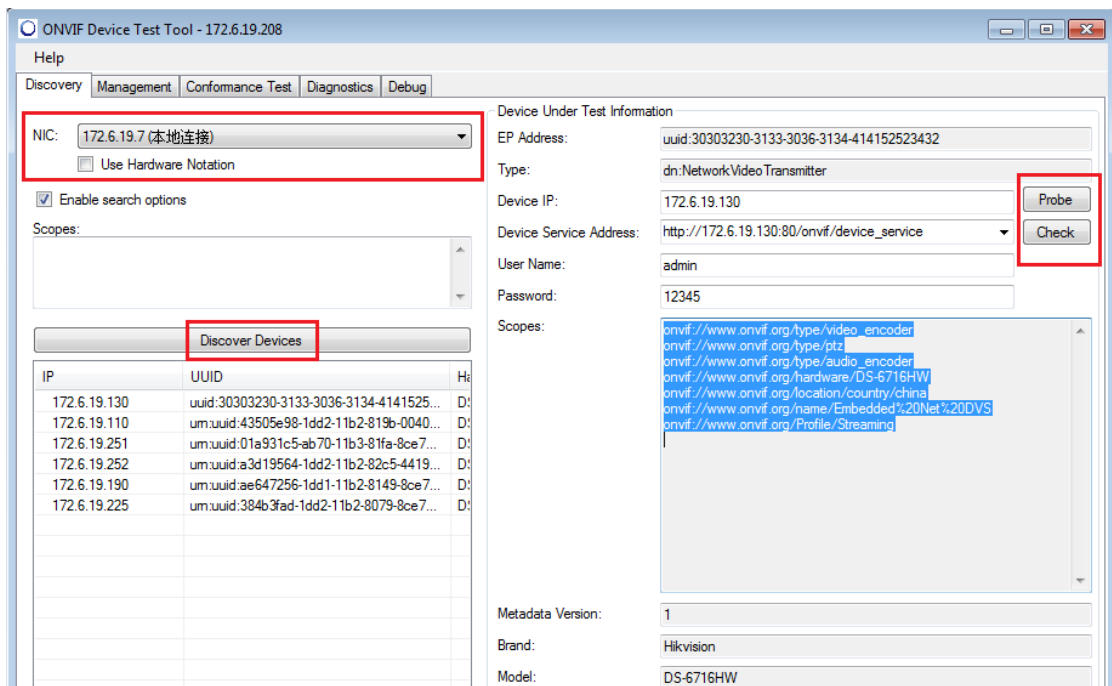
Note: Or you can refer to the ONVIF TEST TOOL Installation Guide

Tool Configuration

1. Download the ONVIF Test Tool from the ONVIF website and install the client, here we take V13_06 as an example, and run the client after installation.

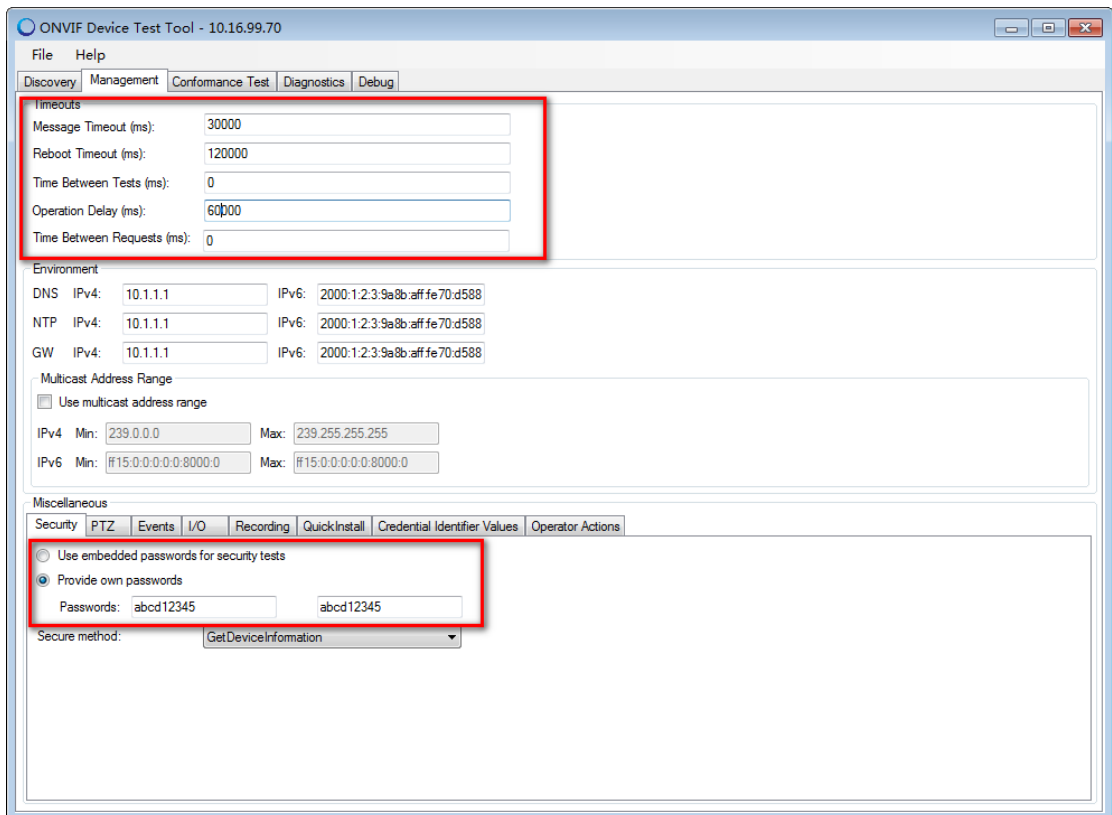


2. Go to Discovery and choose the corresponding NIC
3. Click Discover Device to show the online device, and then click Probe, Check in turn, you will see the basic information of the device in the scopes window.

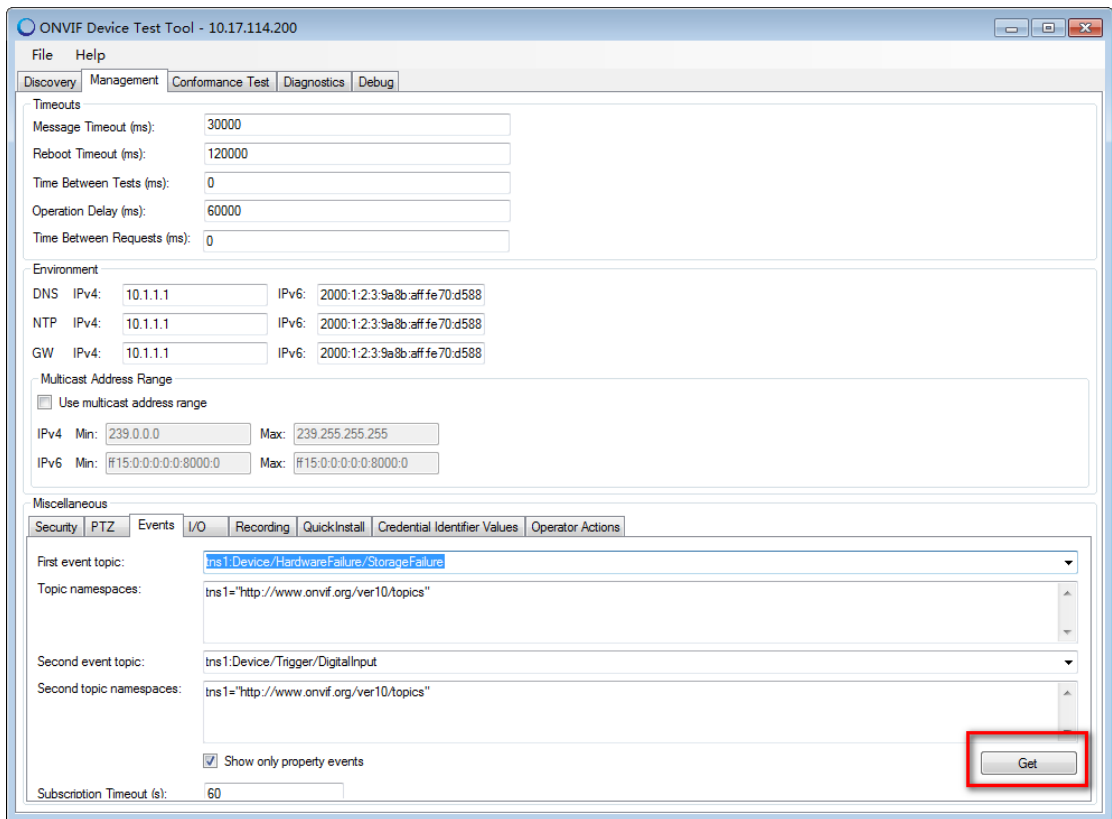


Note: if you failed to get the information after click check button, check if the device support ONVIF protocol first.

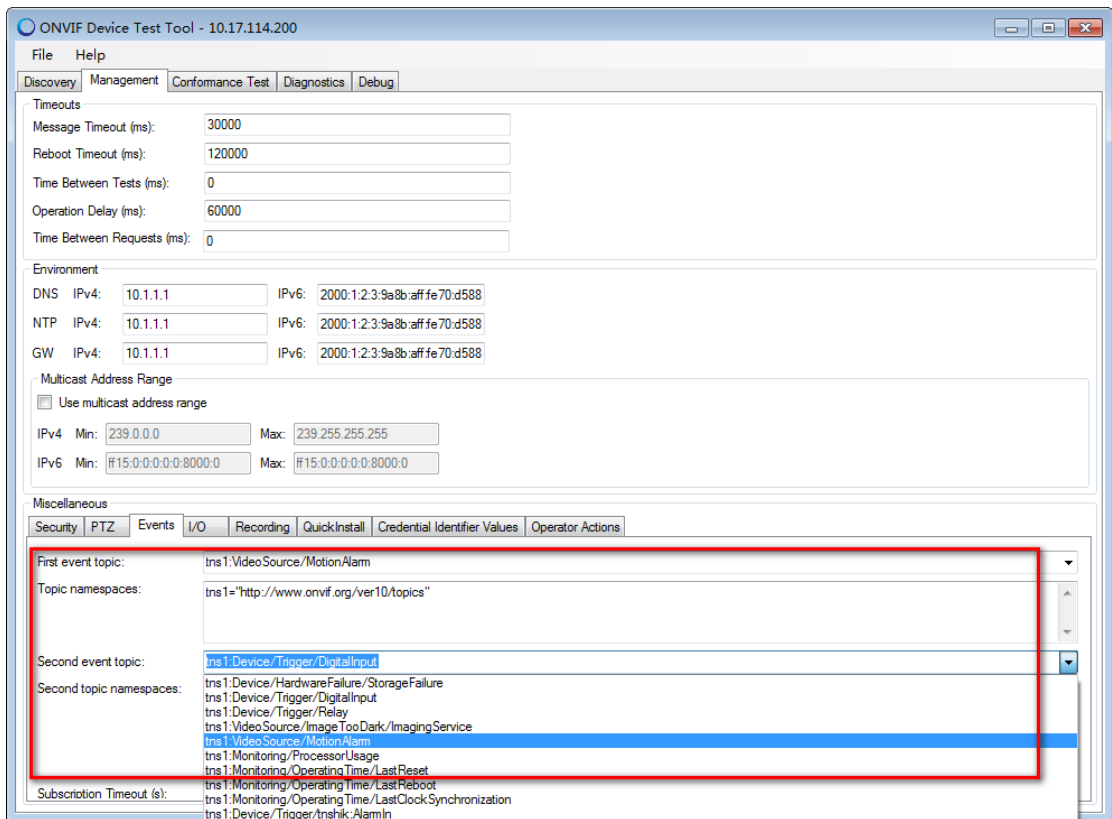
4. Go to Management interface and set the parameter below, and password cannot include the username, for example, username is admin, password cannot be 123admin or admin123 and so on.



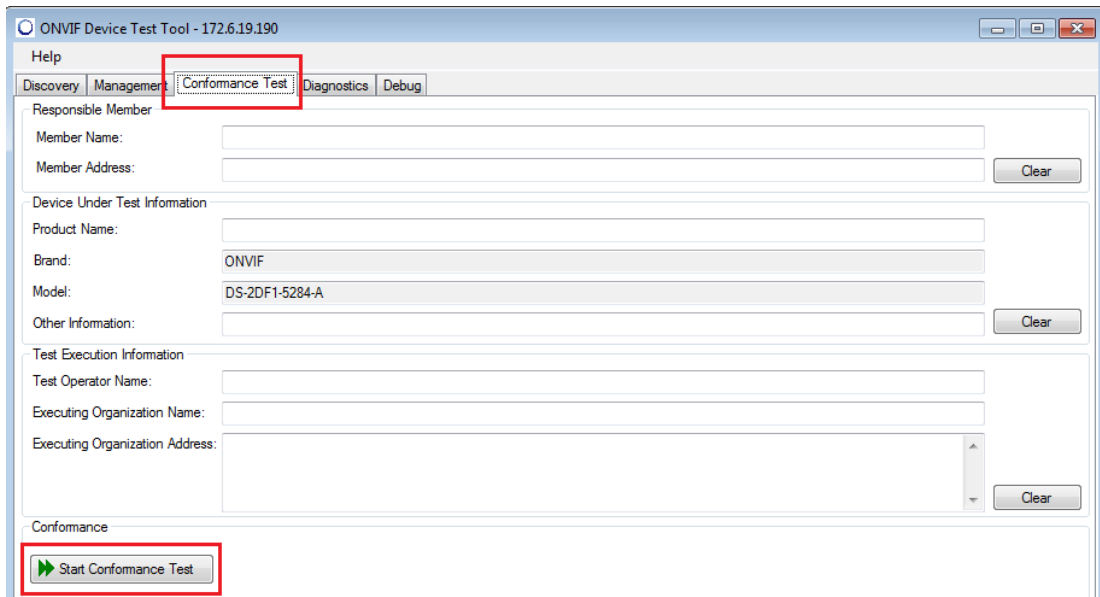
5. Go to Management> Miscellaneous> Event and Click Get



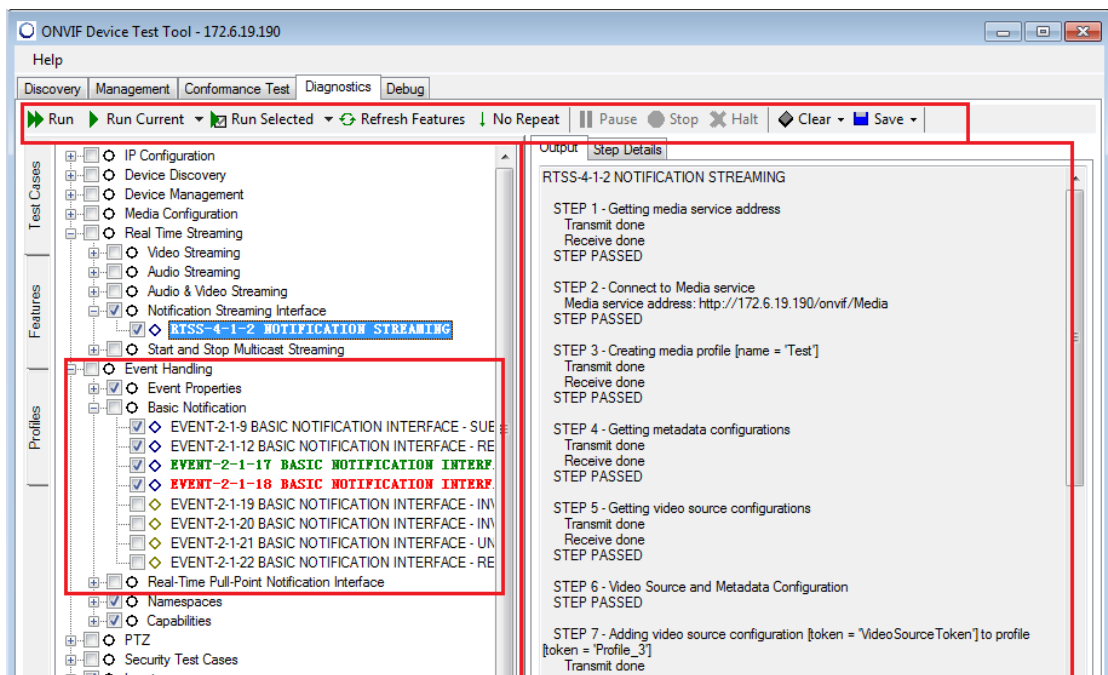
6. Select the first and second event topic, we suggest to select **tns1:VideoSource/MotionAlarm** for both of them, otherwise, if the device does not support the event type you selected, you will fail the test.



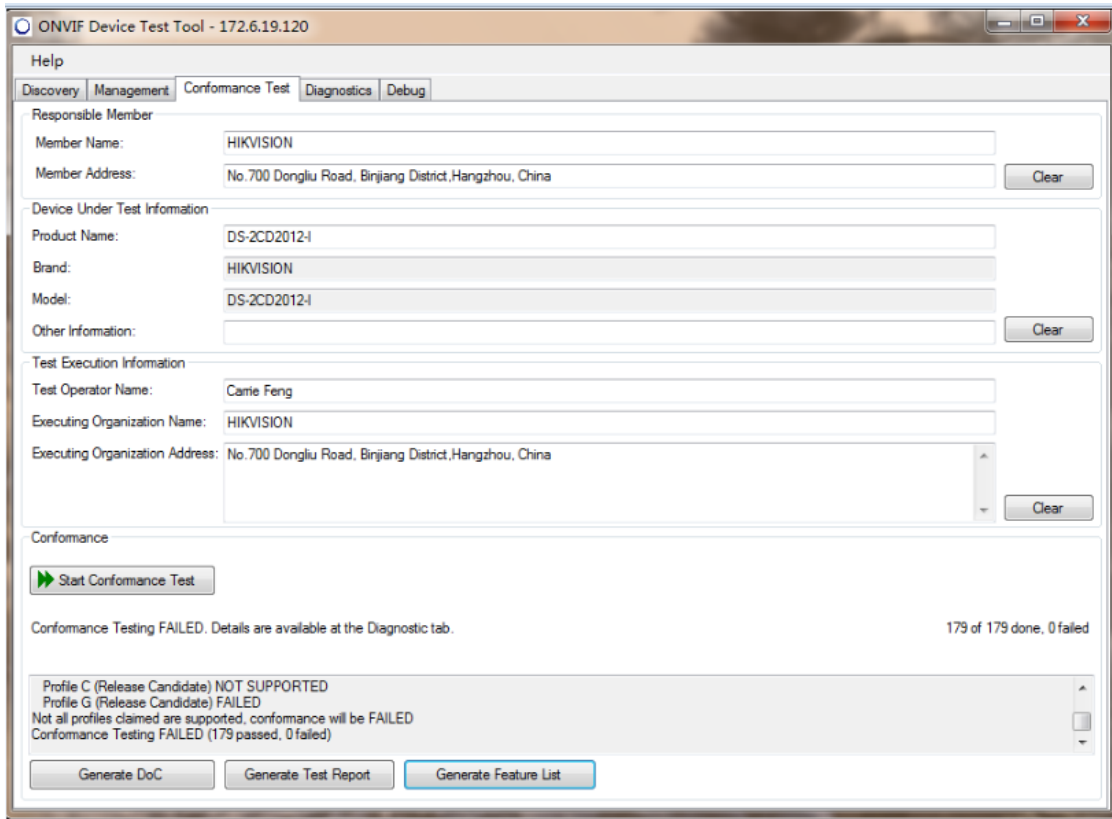
7. Go to Conformance Test and click Start Conformance Test



- Go to Diagnostics page to check the test result. Green means pass, red is failed. And you can use the control bar on the upper side to control the process.

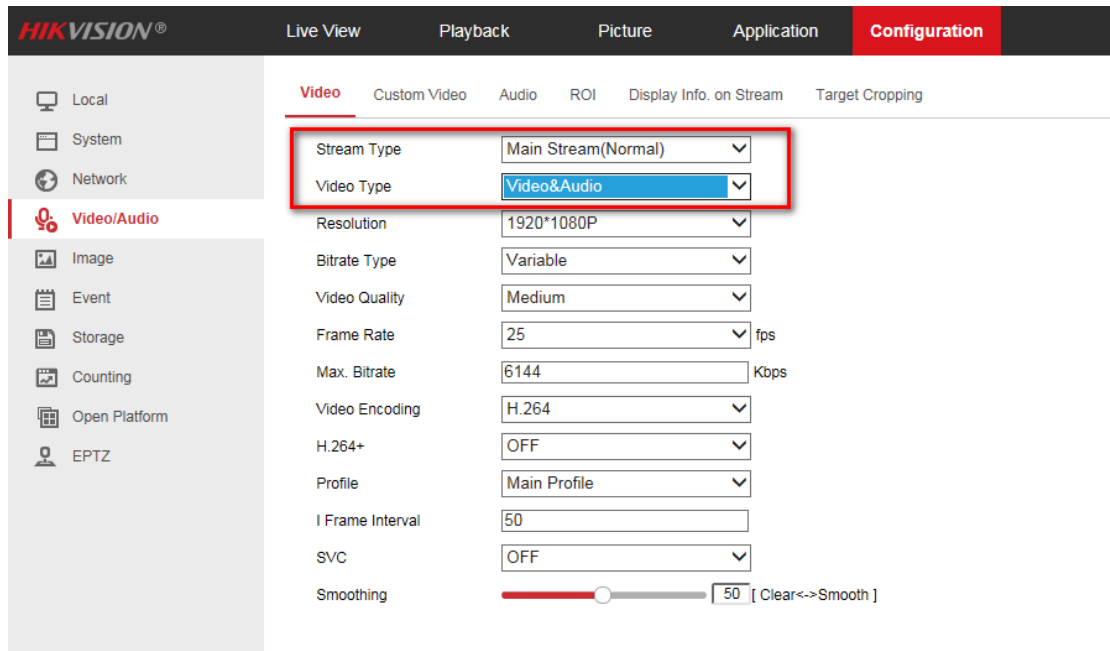


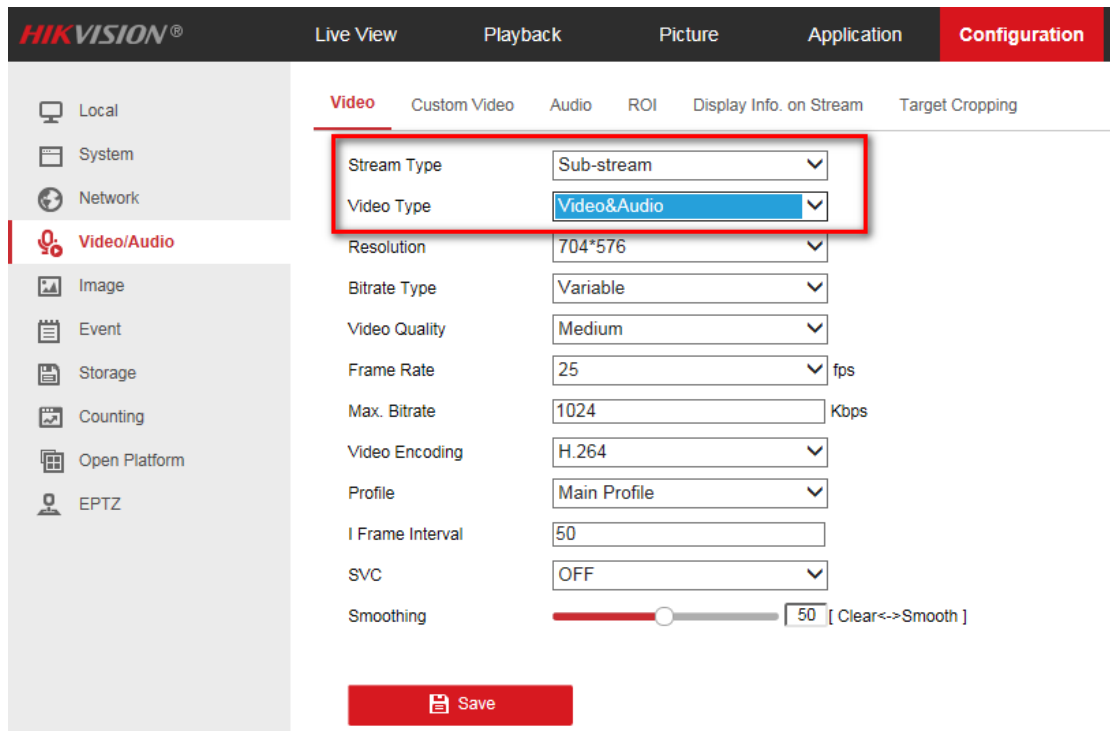
- If all passed, go to conformance Test and enter the test information correspondingly and generate Doc, Test Report and Feature list.



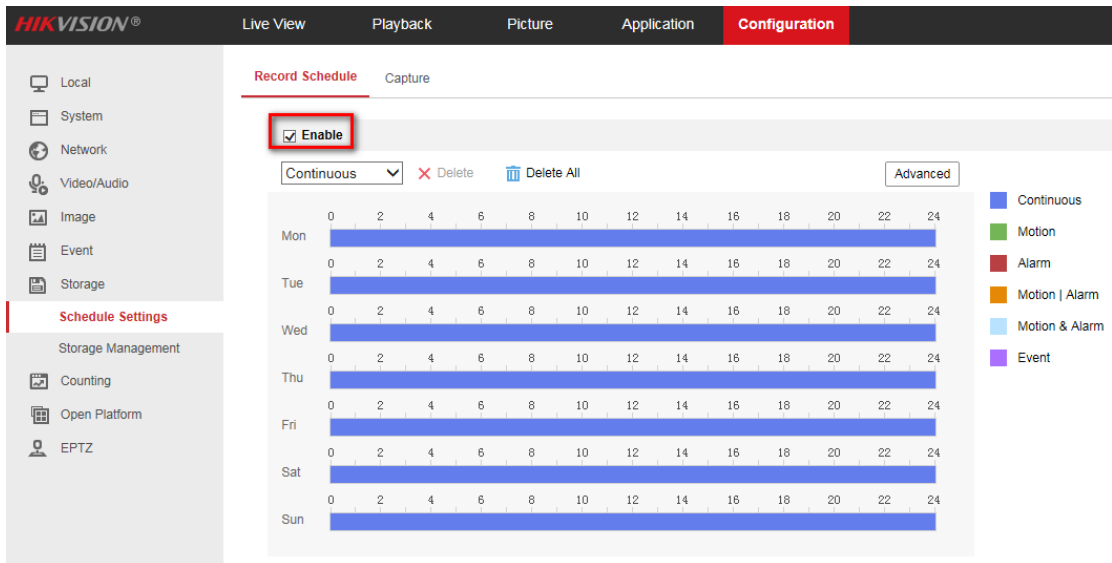
Device Configuration

1. All the steam video type need to be set to Video&Audio

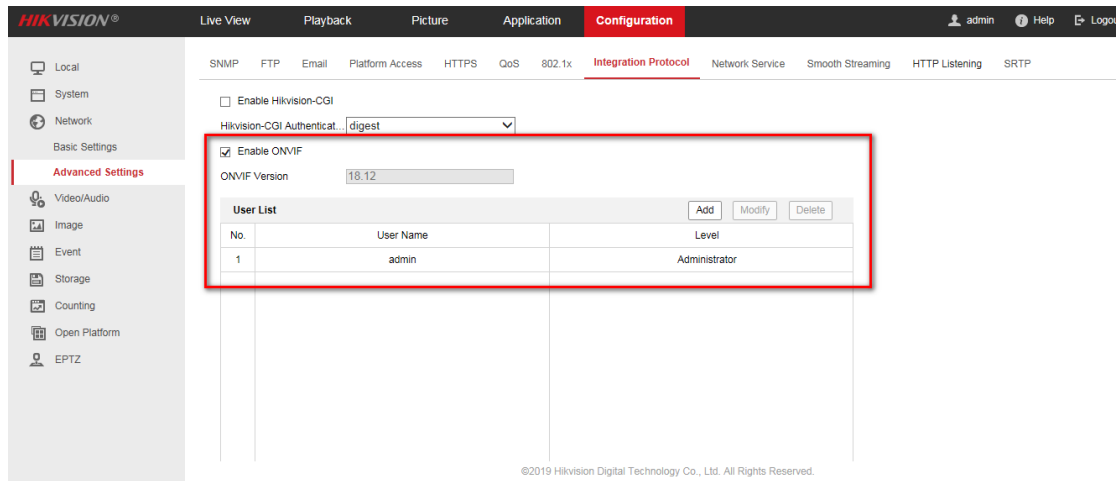




2. Need to record about 1 min video by SD card or NAS for record function test, and also you need to disable the record schedule when it is done in case the test process will be disrupted by the w/r of video.

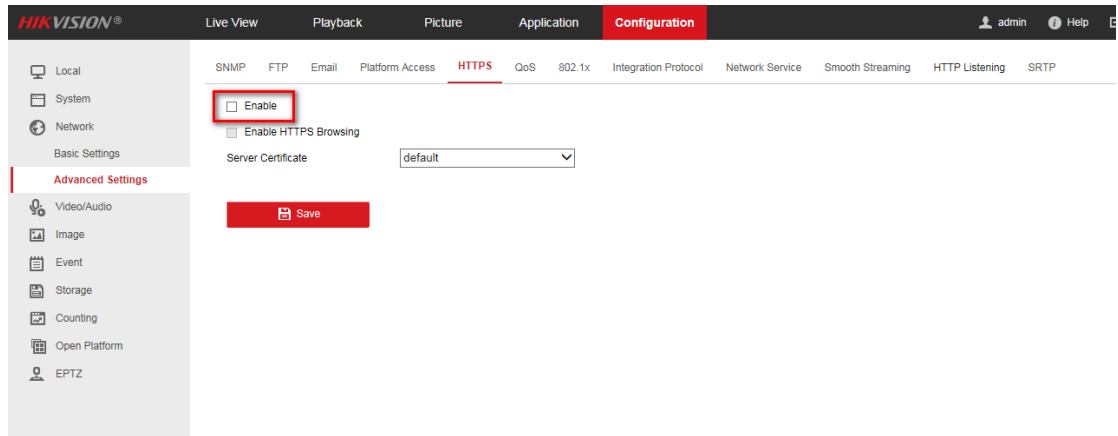


3. Enable ONVIF and add admin user



Note:

When run the ONVIF tool on certain PC system, the Tool may failed to enable the TLS1.2 function, you can go to Configuration> Network > Advanced settings to disable the HTTPs on the device or add TLS1.2 to your PC's registry list.



Note:

Close the firewall during the whole the test

