

Application Note

VAST Network settings

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Revision History

Version	Issue date	Author	Comment
0.1	2010/09/14	Emily Chen	First draft
0.2	2010/10/01	Emily Chen	Revised (1.1, 1.2, 2.1 and some figures)
1.0	2010/12/06	Polly Yang	Revised and first release

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Introduction

VAST is a video management solution that allows the client and server to be installed on different machines. To ensure client access, we have made it easy to configure a VAST server for access over the Internet, and to facilitate data communications when the machines are located on different LANs.

This document is divided into three sections:

1. Configuring a VAST server for access over the Internet
2. Connecting to a VAST server via a proxy server
3. Viewing live video with a mobile phone

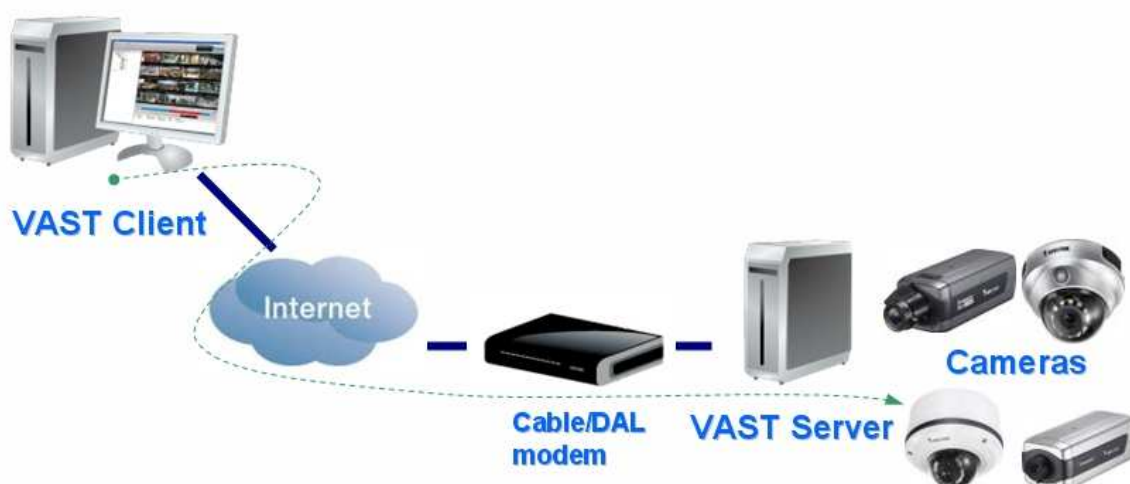
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1. Configuring a VAST server for access over the Internet

You may occasionally need to configure the VAST server so that it can be accessed from anywhere over the Internet. There are two approaches for achieving this.

1.1 Connecting via PPPoE

It is not necessary to forward any ports for the VAST server.



1.2 Connecting via NAT

It is necessary to forward ports on the router for the VAST server.

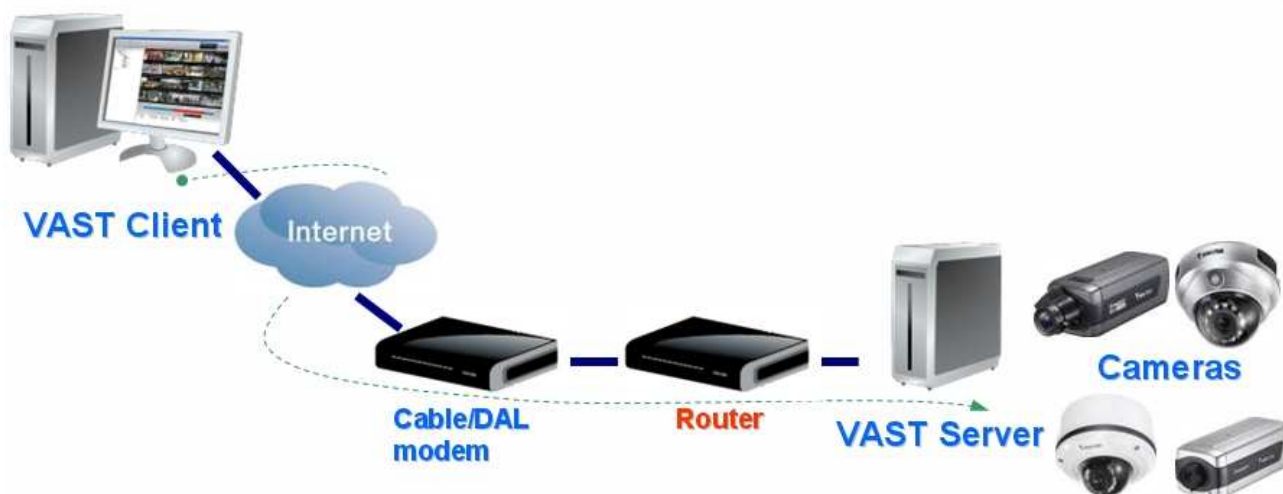


Figure 2: NAT

- (1) You can manually forward the station port (3454 by default) for the VAST server and the RTSP port (554 by default). In the example shown in the figure below, the VAST server's IP address on the LAN is 192.168.14.55.

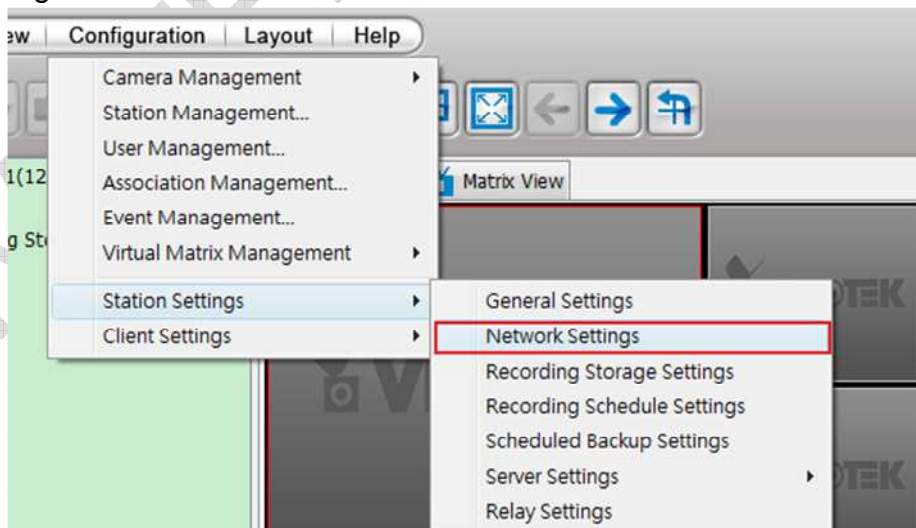


Name	IP Address	Port	Traffic Type	Schedule	Inbound Filter
Station port	192.168.14.55	Public: 3454, Private: 3454	Both	Always	Allow All
RTSP port	192.168.14.55	Public: 554, Private: 554	Both	Always	Allow All

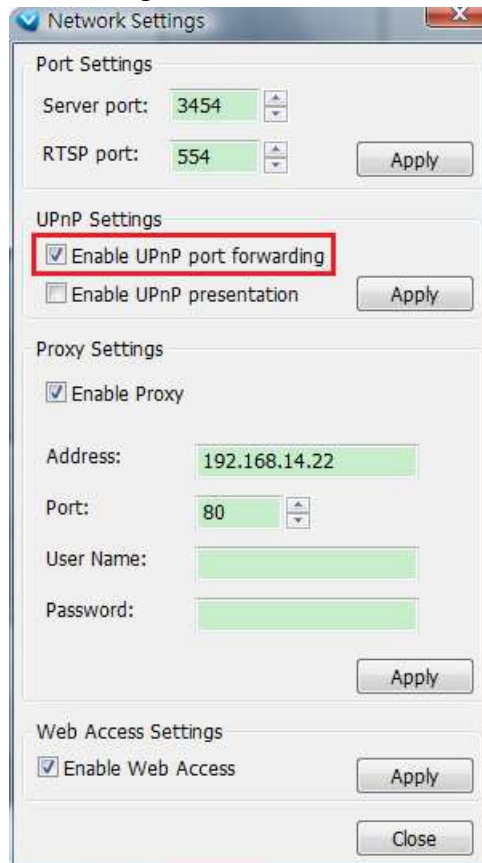
- (2) Alternatively, you can enable port forwarding so that you do not need to forward ports manually.
- Run the VAST LiveClient program.



- Click **Configuration > Station Settings > Network Settings** to configure UPnP settings.

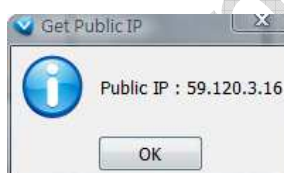
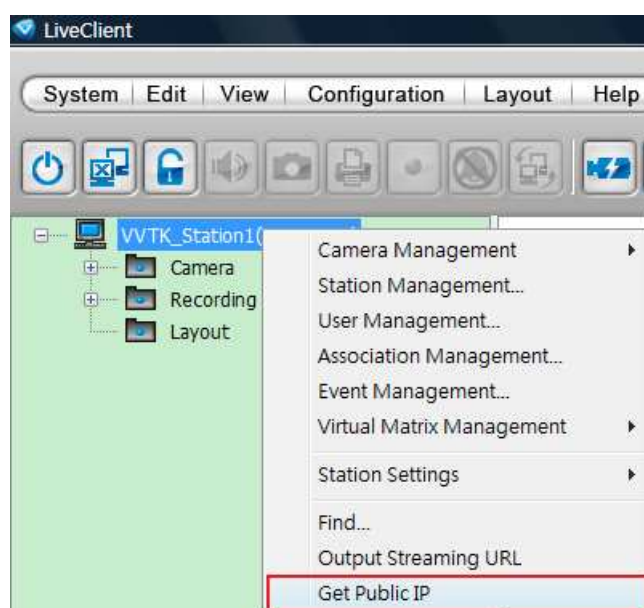


c. Enable UPnP port forwarding.



1.3 Obtaining a public IP address

After connecting to the Internet and logging into the local station, you can obtain a public IP address by right-clicking on the icon corresponding to the station.



2. Connecting to a VAST server via a proxy server

In certain situations, cameras or VAST clients may not be able to establish a connection to a VAST server due to network problems. If cameras and VAST clients cannot establish a connection with the VAST server, but there is a proxy server to which all cameras, VAST clients and VAST servers can establish a connection, the proxy server can be used for data communications.

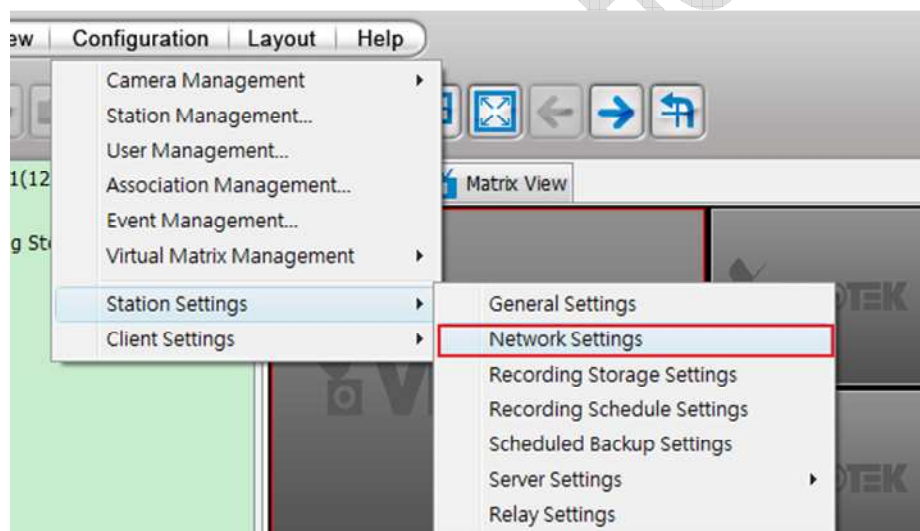
2.1 Configuring a VAST server for access via a proxy server

A VAST server can be set up to connect to cameras through a proxy server by using the following steps.

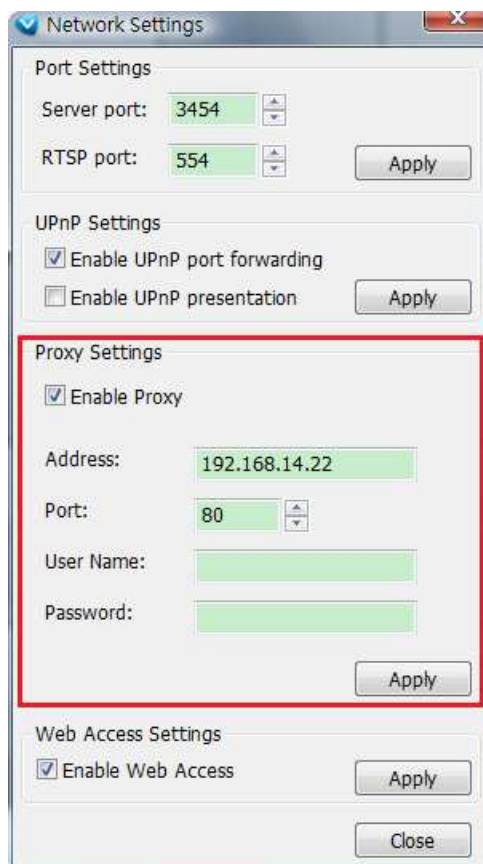
- (1) Run the VAST LiveClient program.



- (2) Click **Configuration > Station Settings > Network Settings** to configure proxy settings.



- (3) Place a check by Enable Proxy, and enter the correct address, port, user name, and password.



The image shows a 'Network Settings' dialog box with several sections. The 'Proxy Settings' section is highlighted with a red border. It contains a checked checkbox for 'Enable Proxy', and input fields for 'Address' (192.168.14.22), 'Port' (80), 'User Name', and 'Password'. There are 'Apply' and 'Close' buttons at the bottom of the dialog.

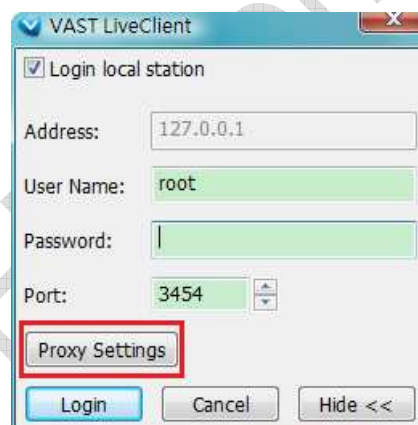
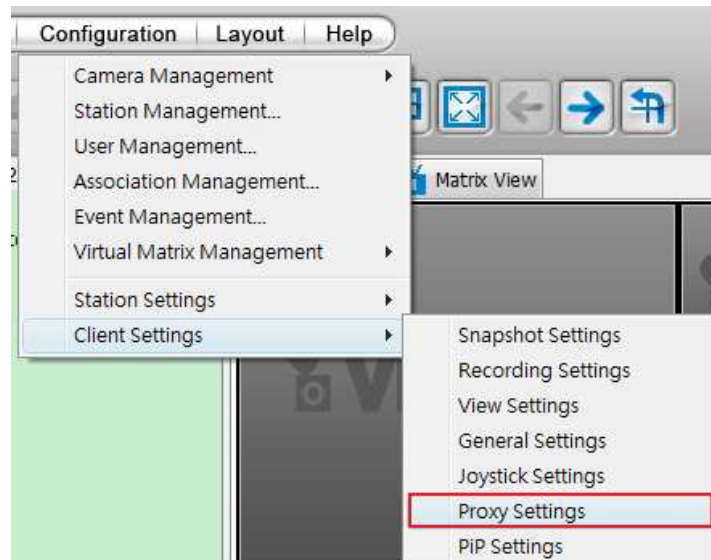
Section	Setting	Value
Port Settings	Server port	3454
	RTSP port	554
UPnP Settings	Enable UPnP port forwarding	<input checked="" type="checkbox"/>
	Enable UPnP presentation	<input type="checkbox"/>
Proxy Settings	Enable Proxy	<input checked="" type="checkbox"/>
	Address	192.168.14.22
	Port	80
	User Name	
	Password	
Web Access Settings	Enable Web Access	<input checked="" type="checkbox"/>

2.2 Transferring clients to proxy server

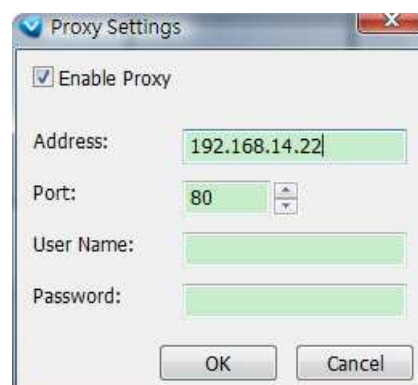
VAST clients can connect to a VAST server via a proxy server.

(1) LiveClient

- a. To use a proxy server with LiveClient, click **Configuration > Client Settings > Proxy Settings** or launch the login window to configure proxy settings.

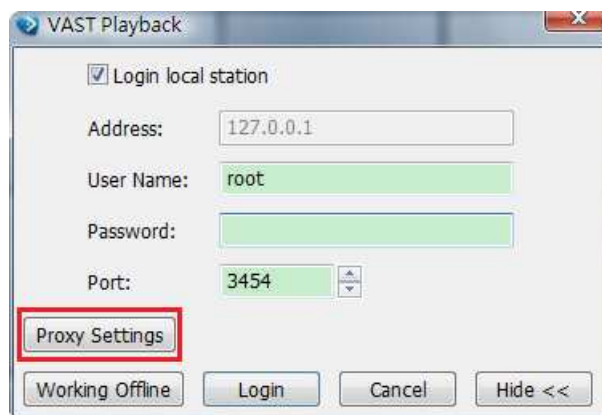
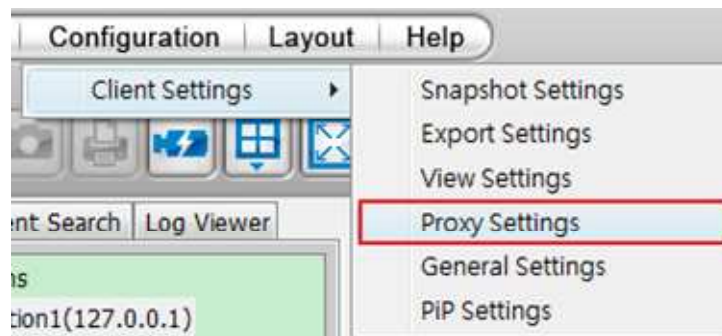


- b. Place a check by Enable Proxy, and enter the correct address, port, user name, and password.

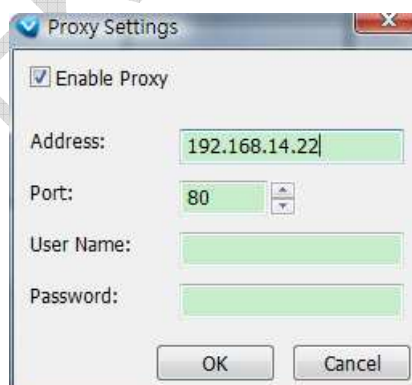


(2) Playback

- a. To play back video using a proxy server, click **Configuration > Client Settings > Proxy Settings**, or launch the login window to configure proxy settings.



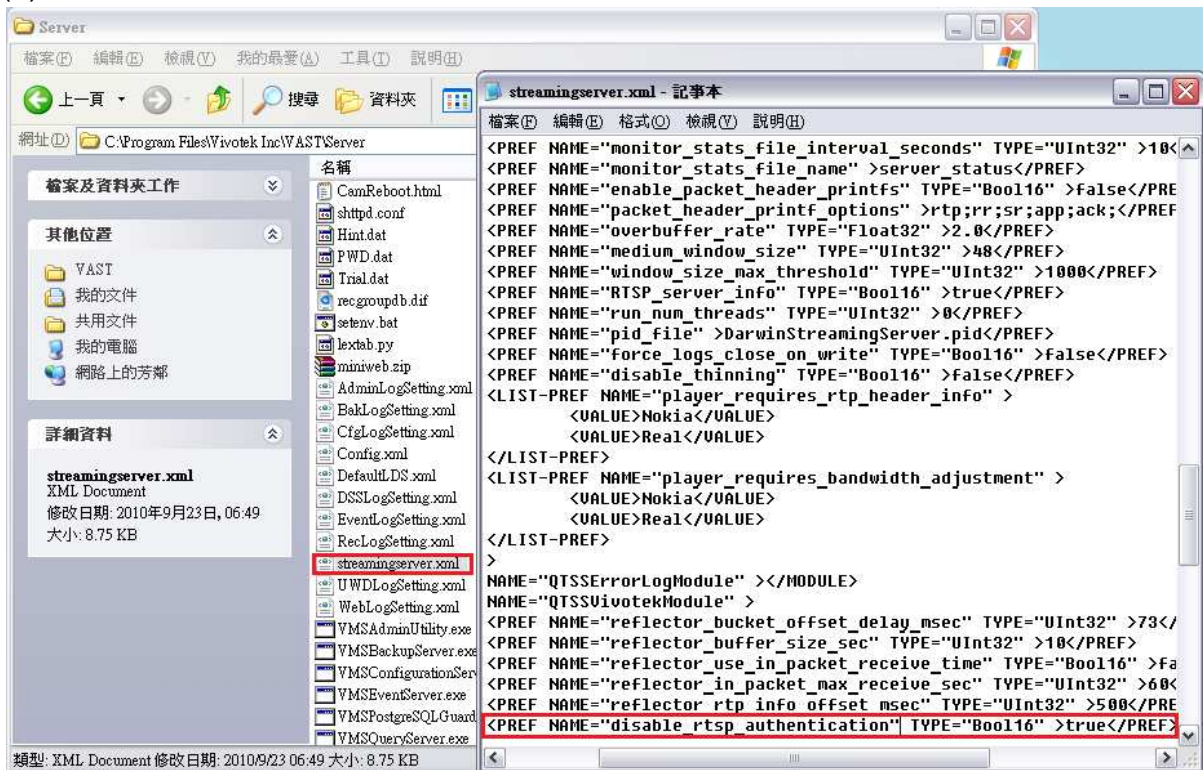
- b. Place a check by Enable Proxy, and enter the correct address, port, user name, and password.



3. Viewing live video with a mobile phone

To view a live video stream using a mobile phone that supports only port **554**, set the station port to 554. You must also **disable rtsp authentication**.

- (1) Go to the VAST installation directory, and find the text "Server\streamingserver.xml".
- (2) Change the value of the parameter "disable_rtsp_authentication" to "true".
- (3) Restart the VAST service.



- (4) Select Output Streaming URL to display the URL command, which can then be entered into a cell phone:

rtsp://<public IP>:<station port>/Media/Live/Normal?camera=C_1&streamindex=1

