

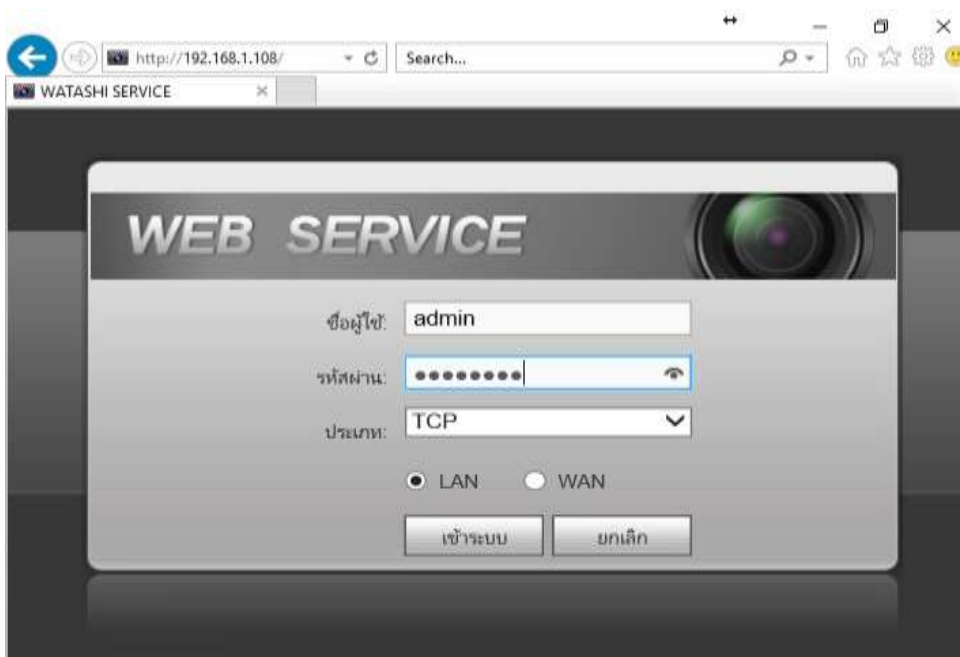
## Set up ZTE\_F668 to use TrueDDNS with CCTV

1. Check IP Address and Port of CCTV to set Port forwarding at Router

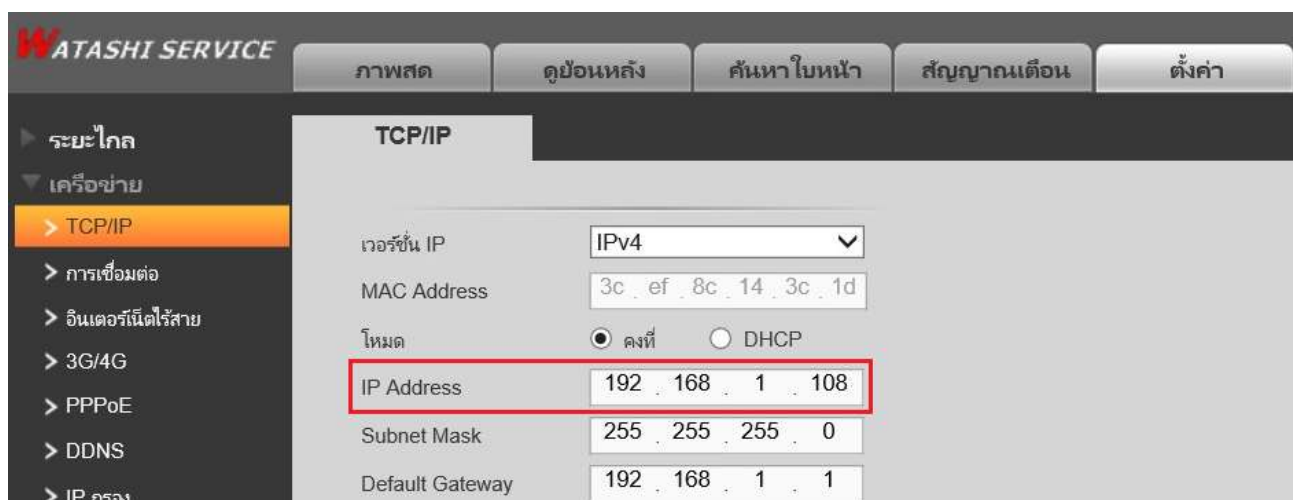
1.1. Check the setting at DVR that's used to record data from all cameras in house (ex. Watashi CCTV)

- Type IP Address of DVR at Browser, Ex. 192.168.1.108 then press Enter
- Enter Username and password of DVR then press Log in

in case don't know IP Address, Username and password of DVR, ask the technician who installs DVR



1.2. Check IP Address, go **Setting > Network > TCP/IP**: IP Address of DVR: **192.168.1.108**



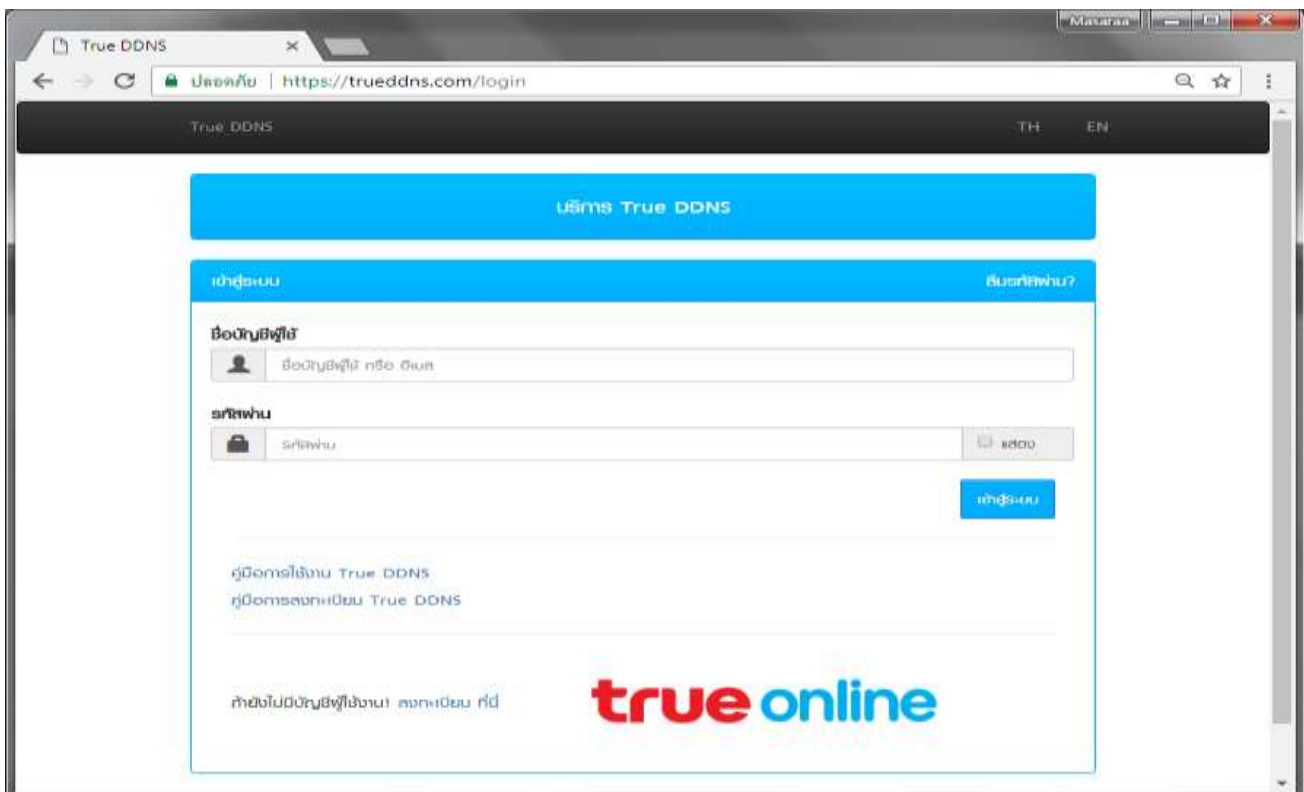
1.3. Check Port, go to Setting > Network > Connection, mostly used Ports :

- TCP Port : **37777** (Port to view camera via Application on Smart Phone)
- HTTP Port : **81** (Port to view camera via Web Browser)



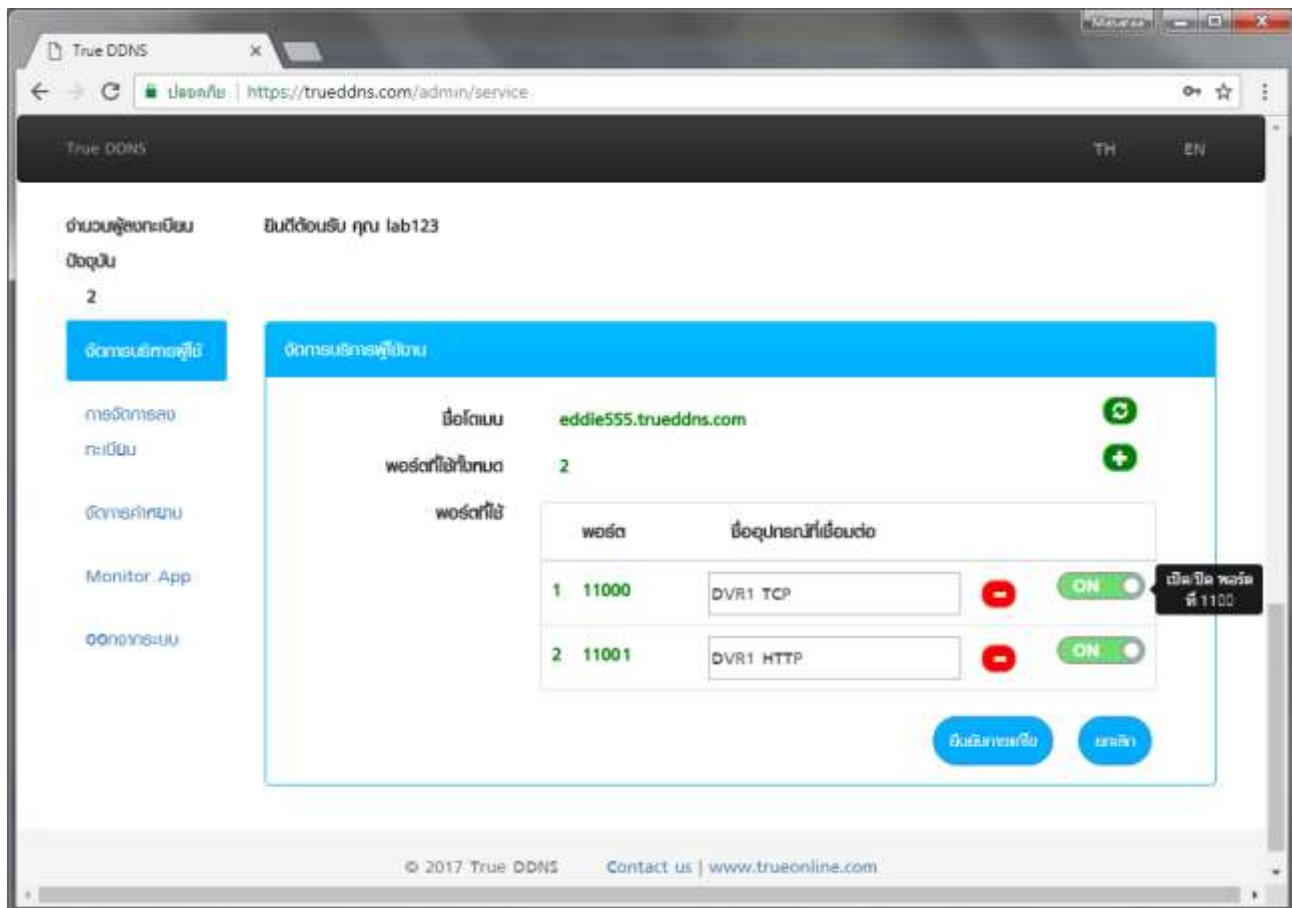
2. Set up TrueDDNS

- 2.1. Type <https://trueddns.com/login> at Browser and then press Enter > Login by using registered Username and password then press **Log in**



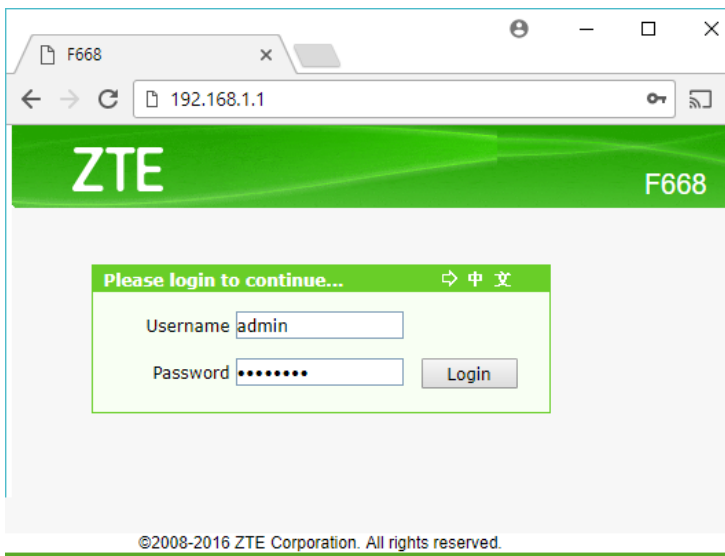
## 2.2. Select Service Management

- Pairing Port to align with DVR
- Port 11000 : set TCP name to be the same as TCP Port of DVR, click turn ON behind button
- Port 11001 : set HTTP name to be the same as HTTP Port of DVR, click turn ON behind button
- When finished, press Confirm

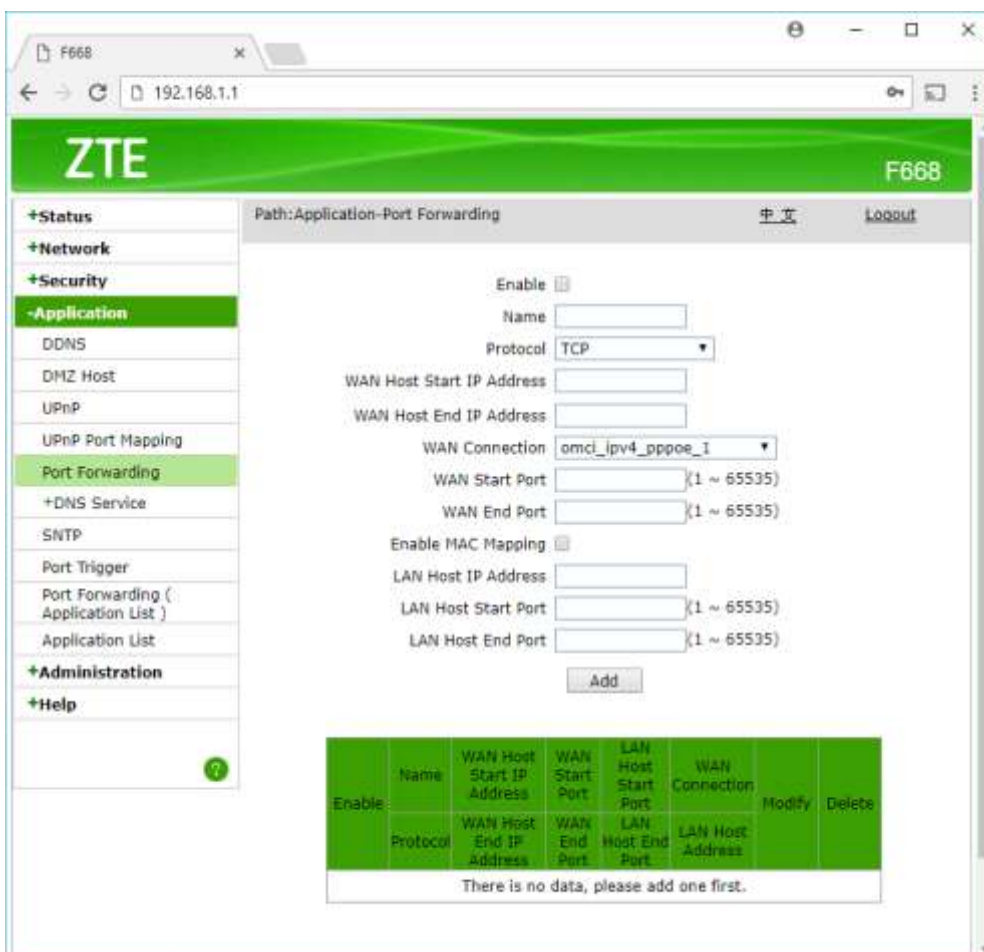


### 3. Set up Port Forwarding at Router

3.1. Type 192.168.1.1> Username = admin , Password = password



### 3.2. Go to Application > Port Forwarding



### 3.3. Set up as follows:

- Enable : tick a check
- Name : enter name of using device (e.g. DVR1 TCP)
- Protocol : TCP
- WAN Host Start IP Address / WAN Host End IP Address : not set
- WAN Connection: omci\_ipv4\_pppoe\_1
- WAN Start Port: 11000
- WAN End Port : 11000
- LAN Host IP Address : enter IP Address of device to forward Port e.g. 192.168.1.108
- LAN Host Start Port : Port 37777
- LAN Host End Port : Port 37777
- Press **ADD**

The screenshot shows the ZTE F668 web interface for configuring Port Forwarding. The browser address bar shows 192.168.1.1. The page title is 'ZTE F668'. The navigation menu on the left includes: +Status, +Network, +Security, -Application (selected), DDNS, DMZ Host, UPnP, UPnP Port Mapping, Port Forwarding (selected), +DNS Service, SNTP, Port Trigger, Port Forwarding (Application List), Application List, +Administration, and +Help. The main content area is titled 'Path: Application-Port Forwarding' and contains the following configuration fields:

- Enable:
- Name: DVR1 TCP
- Protocol: TCP
- WAN Host Start IP Address: (empty)
- WAN Host End IP Address: (empty)
- WAN Connection: omci\_ipv4\_pppoe\_1
- WAN Start Port: 11000 (range 1 ~ 65535)
- WAN End Port: 11000 (range 1 ~ 65535)
- Enable MAC Mapping:
- LAN Host IP Address: 192.168.1.108
- LAN Host Start Port: 37777 (range 1 ~ 65535)
- LAN Host End Port: 37777 (range 1 ~ 65535)

Below the configuration fields is an 'Add' button. At the bottom, there is a table with the following columns: Enable, Name, WAN Host Start IP Address, WAN Start Port, LAN Host Start Port, WAN Connection, WAN Host End IP Address, LAN Host End Port, Modify, and Delete. The table is currently empty, with a message below it stating 'There is no data, please add one first.'

3.4. After pressing ADD, setup information will be shown in below table

The screenshot shows the ZTE F668 web interface for 'Application-Port Forwarding'. The configuration form includes fields for Name, Protocol (set to TCP), WAN Host Start/End IP Address, WAN Connection (omci\_ipv4\_pppoe\_1), WAN Start/End Port (1 ~ 65535), Enable MAC Mapping, and LAN Host Start/End IP Address and Port (1 ~ 65535). An 'Add' button is visible below the form.

Enable	Name	WAN Host Start IP Address	WAN Start Port	LAN Host Start Port	WAN Connection	Modify	Delete
✓	DVR1 TCP		11000	37777	omci_ipv4_ppr		
	TCP		11000	37777	192.168.1.108		

### 3.5. Set up HTTP Port

- Enable : tick a check
- Name : : enter name of using device (e.g. DVR1 HTTP)
- Protocol : TCP
- WAN Host Start IP Address and WAN Host End IP Address : not set
- WAN Connection: omci\_ipv4\_pppoe\_1
- WAN Start Port: 11001
- WAN End Port : 11001
- LAN Host IP Address : IP Address of device to forward Port
- LAN Host Start Port : Port 81
- LAN Host End Port : Port 81
- Press ADD

The screenshot shows the ZTE F668 web interface for configuring Application-Port Forwarding. The configuration is as follows:

- Enable:
- Name: DVR1 HTTP
- Protocol: TCP
- WAN Host Start IP Address: (empty)
- WAN Host End IP Address: (empty)
- WAN Connection: omci\_ipv4\_pppoe\_1
- WAN Start Port: 11001 (1 ~ 65535)
- WAN End Port: 11001 (1 ~ 65535)
- Enable MAC Mapping:
- LAN Host IP Address: 192.168.1.108
- LAN Host Start Port: 81 (1 ~ 65535)
- LAN Host End Port: 81 (1 ~ 65535)

Below the configuration fields is an "Add" button and a table of existing rules:

Enable	Name	WAN Host Start IP Address	WAN Start Port	LAN Host Start Port	WAN Connection	Modify	Delete
<input checked="" type="checkbox"/>	DVR1 TCP		11000	37777	omci_ipv4_pppoe_1		
	TCP		11000	37777	192.168.1.108		

#### 4. Close DDNS setting at Router

##### 4.1. Application > DDNS

The screenshot shows the ZTE F668 router's web management interface. The browser address bar shows the IP address 192.168.1.1. The page title is 'ZTE F668'. The left sidebar contains a navigation menu with categories: +Status, +Network, +Security, -Application (selected), +DNS Service, +Administration, and +Help. Under the -Application category, 'DDNS' is selected. The main content area is titled 'Path:Application-DDNS' and includes a language dropdown set to '中文' and a 'Logout' link. The DDNS configuration fields are as follows:

- Enable:
- Service Type: No-IP (dropdown)
- Server: http://www.no-ip.com
- Username: chaykrub
- Password: [masked]
- WAN Connection: omci\_ipv4\_pppoe\_1 (dropdown)
- Hostname: chaykrub2.ddns.net

At the bottom right of the configuration area, there are 'Submit' and 'Cancel' buttons. The footer of the page reads: ©2008-2016 ZTE Corporation. All rights reserved.



## 4.2. Uncheck at Enable, press **Submit**

The screenshot shows the ZTE F668 web interface for configuring DDNS. The browser address bar shows 192.168.1.1. The page title is 'ZTE F668'. The left sidebar contains a menu with categories: +Status, +Network, +Security, -Application (selected), +Administration, and +Help. Under -Application, the 'DDNS' option is highlighted. The main content area is titled 'Path:Application-DDNS' and includes a language selector '中文' and a 'Logout' link. The configuration fields are as follows:

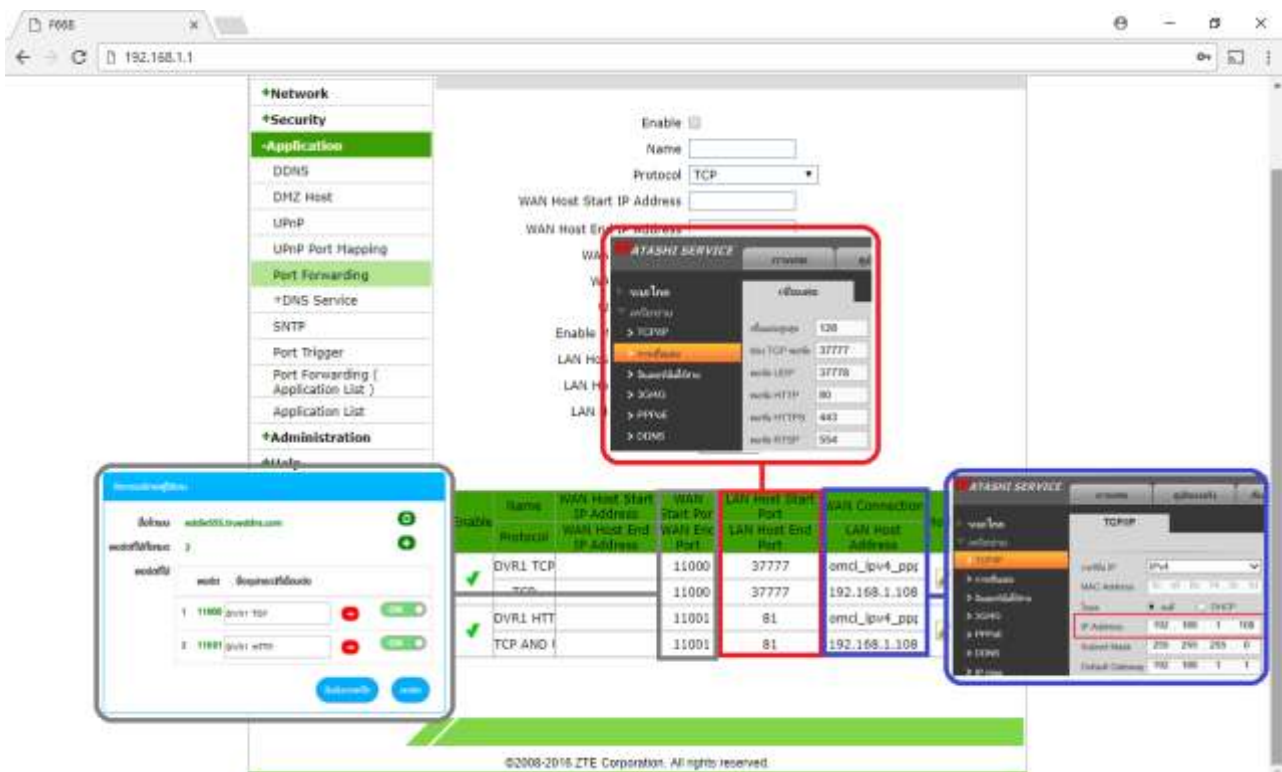
- Enable:
- Service Type: No-IP
- Server: http://www.no-ip.com
- Username: chaykrub
- Password: masked with dots
- WAN Connection: omci\_ipv4\_pppoe\_1
- Hostname: chaykrub2.ddns.net

At the bottom right, there are 'Submit' and 'Cancel' buttons. The footer contains the copyright notice: ©2008-2016 ZTE Corporation. All rights reserved.

5. Close DDNS setting at DVR: go to Setting > DDNS > remove a check mark > press Save

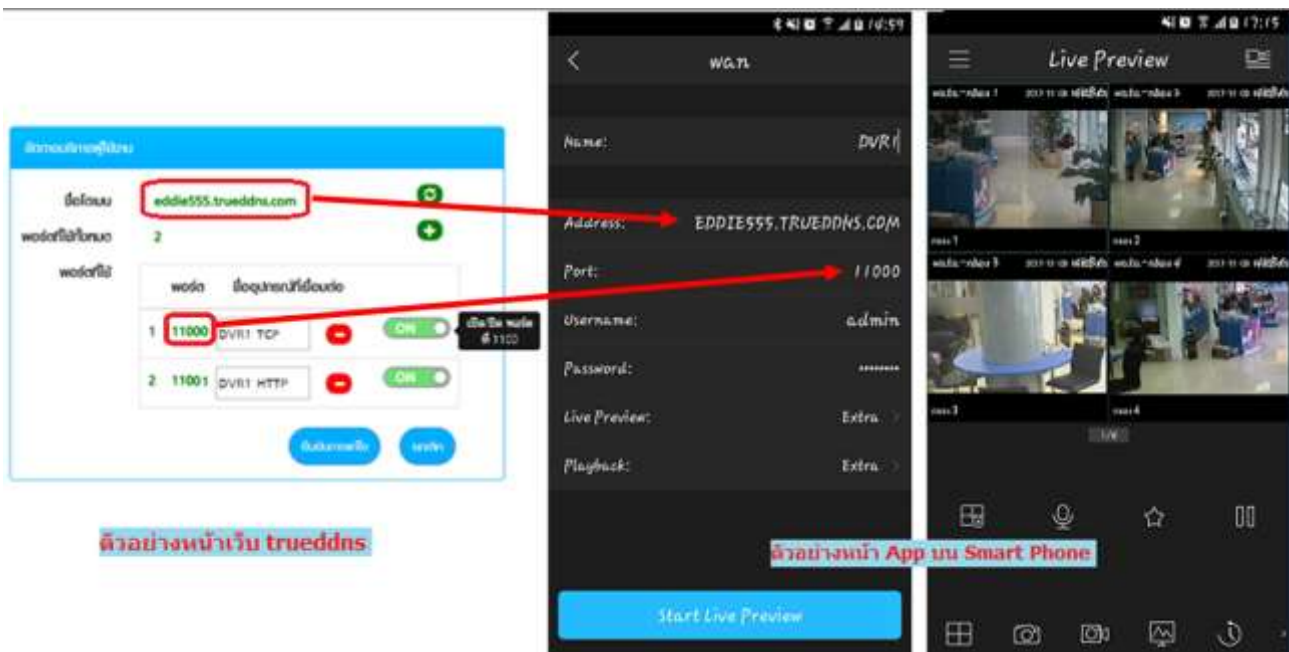


6. Overall settings



7. Test using via **Mobile Internet or Internet that is different from at home**

7.1. Test CCTV App on Smart Phone by using Domain name and Port numbers from True DDNS, if the setting is correct, you'll see pictures from camera



7.2. Test the usage via Web : enter Domain name : Port number from TrueDDNS Ex. eddie555.trueddns.com :11001 If the setting is correct, you can access CCTV Web

