

# TW-EAV510: VIRTUAL SERVER

Example how to set virtual server rules for IP camera

So that can be done virtual server rules, **WAN IP address must be public** (with the LTE connections for example Sonera opengate service)

## EXAMPLE

Used devices and services:

- TW-EAV510 modem
- Panasonic BB-HCM735 network camera
- Sonera LTE connection and Opengate service
- IP address of camera 192.168.0.150 and port of camera 1024

## TW-EAV510 VIRTUAL SERVER RULES

- Login to web management 192.168.0.254 (admin/admin)
- Choose Device info / WAN
- Check used interface and public IP address (in the example usbo3g0)
  - o Used interface information needed when set the virtual server rule

WAN Info

Interface	Description	Type	VlanMuxId	IPv6	Igmp Pxy	Igmp Src Enbl	MLD Pxy	MLD Src Enbl	NAT	Firewall	Status	IPv4 Address	IPv6 Address
atm0.1	ipoe_0_0_33	IPoE	Disabled	Enabled	Enabled	Enabled	Disabled	Disabled	Enabled	Enabled	Unconfigured		
atm1.1	ipoe_0_0_100	IPoE	Disabled	Enabled	Enabled	Enabled	Disabled	Disabled	Enabled	Enabled	Unconfigured		
atm2.1	ipoe_0_0_35	IPoE	Disabled	Enabled	Enabled	Enabled	Disabled	Disabled	Enabled	Enabled	Unconfigured		
ptm0.1	ipoe_0_1_1	IPoE	Disabled	Enabled	Enabled	Enabled	Disabled	Disabled	Enabled	Enabled	Unconfigured		
ptm0.2	ipoe_0_1_1.252	IPoE	252	Enabled	Enabled	Enabled	Disabled	Disabled	Enabled	Enabled	Unconfigured		
eth4.1	ipoe_eth4	IPoE	Disabled	Enabled	Enabled	Enabled	Disabled	Disabled	Enabled	Enabled	Unconfigured		
usbo3g0	3G_LTE0	Direct	Disabled	Enabled	Disabled	Disabled	Disabled	Disabled	Enabled	Enabled	Connected	176.93.63.178	2001:14bb:0140:49db:0007:16ff:fe43:d07e/64
ppp03g0	3G_LTE0	PPP	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Enabled	Enabled	Disabled		

- Then choose Advanced setup / NAT / Virtual servers -> Click add
  - o Use interface: select the used interface (the one which checked from device info / WAN)
  - o Service name: custom service (for example camera)
  - o Server IP address: The IP address of camera (in the example 192.168.0.150)
  - o External port start: 1024 (please check from your operator that the port is opened)
  - o External port end: 1024
  - o Protocol: TCP
  - o Internal port start: Port of your camera (in the example 1024)
  - o Internal port end: Port of your camera
  - o Click apply/save

## NAT -- Virtual Servers

Select the service name, and enter the server IP address and click 'Apply/Save' to forward IP packets for this

**Note: The 'Internal Port End' cannot be modified directly. Normally, it is set to the same value as 'Internal Port Start'.**

Remaining number of entries that can be configured:32

Use Interface:

Service Name:

☐ Select a Service:

☒ Custom Service:

Server IP Address:

External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End
1024	1024	TCP	1024	1024
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		
		TCP		

- You can check the rule from virtual server page

## NAT -- Virtual Servers Setup

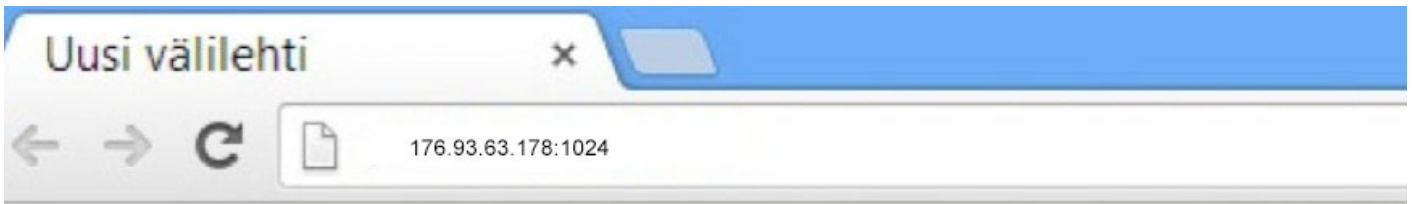
Virtual Server allows you to direct incoming traffic from WAN side (identified by Protocol and External port) to the Internal server with private IP address on the LAN side. The Internal port needs to be converted to a different port number used by the server on the LAN side.

Maximum entries: 32

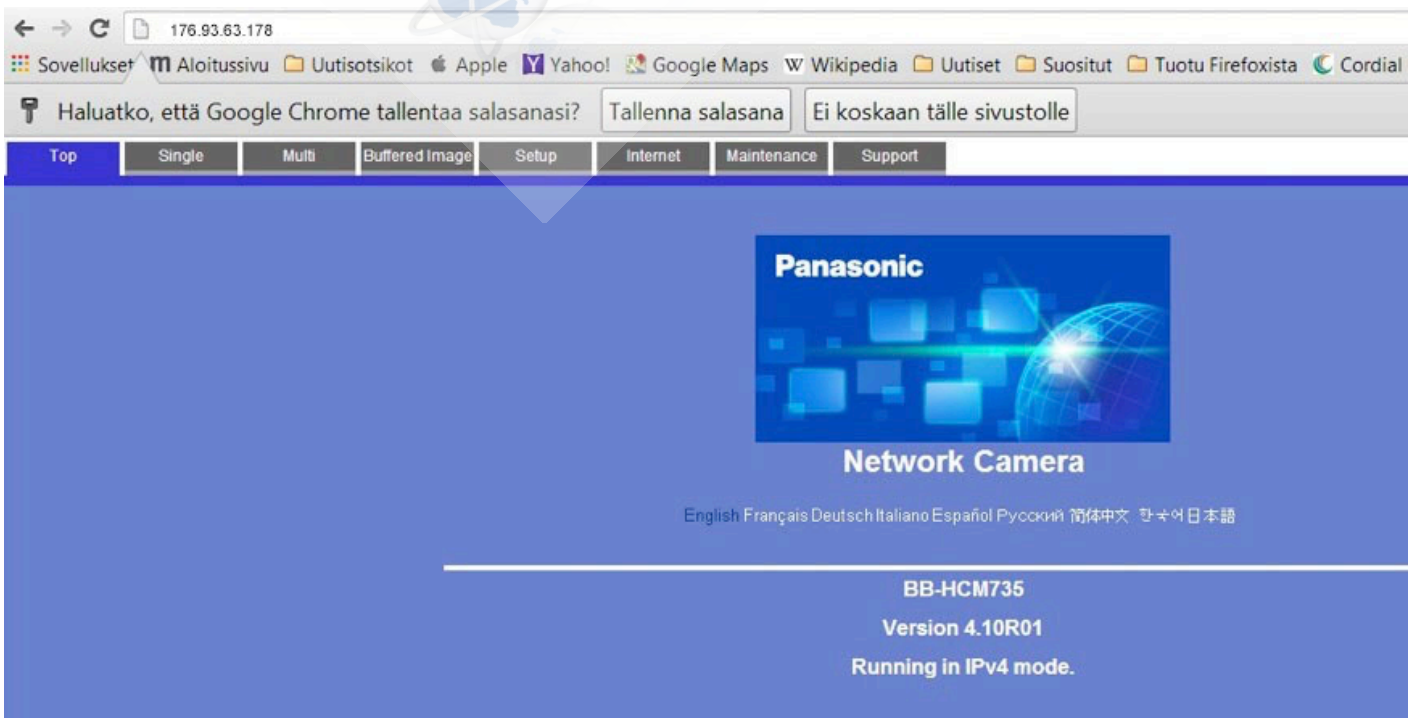
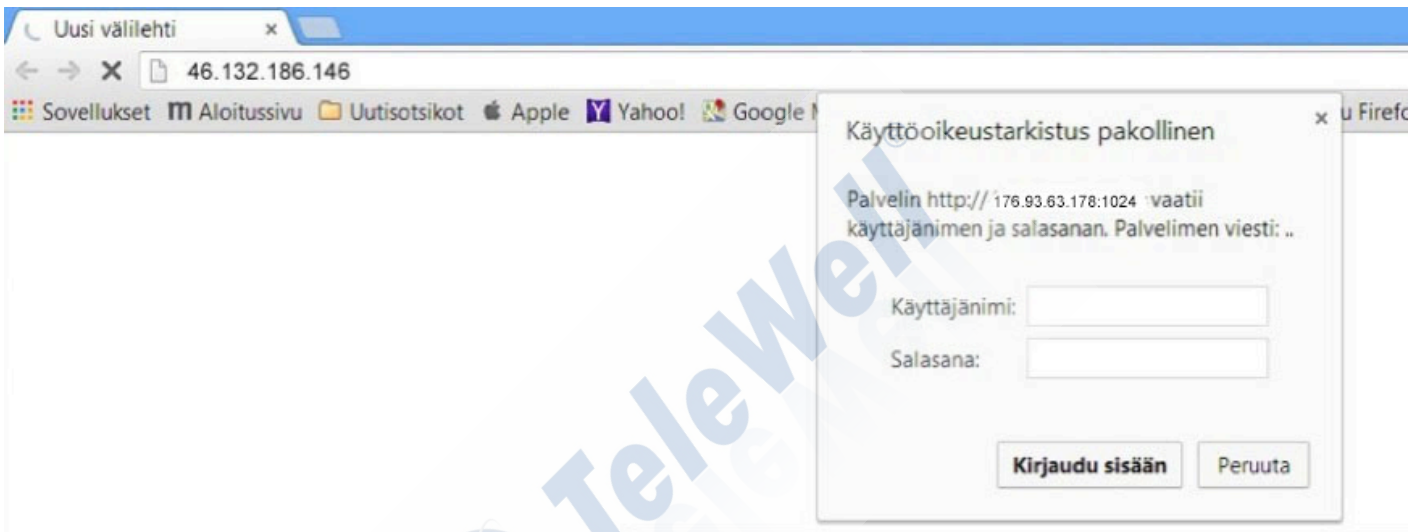
Server Name	External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End	Server IP Address	WAN Interface	Remove	Edit
camera	1024	1024	TCP	1024	1024	192.168.0.150	usbo3g0	<input type="checkbox"/>	<input type="button" value="Edit"/>

## TO CALL THE CAMERA FROM PUBLIC NETWORK

- When needed settings have set to TW-EAV510 modem, you can call the camera from public network with the public IP address of the device and with the port number of the camera



- When camera responds, it asks user name and password
- Set user name and password of your camera and you can login to your camera



## DYNAMIC DNS (in the example dy.fi service)

- It is easier to find your camera from public network, when there is dynamic DNS in use. With dynamic DNS, you need the public IP address, but you don't have to know it. You will use your dynamic DNS account when calling the camera from public network
- First you need to create your own dynamic DNS account (for example dy.fi, dyndns.org etc.)
- When account has been created, the settings will set to TW-EAV510 router
- Login to web management 192.168.0.254 (admin/admin)
- Choose Advanced setup / DNS / Dynamic DNS -> click add
- Set the settings of your own Dynamic DNS account
  - o D-DNS provider: The provider of your dynamic DNS (in the example dy.fi)
  - o Host name: The name you created in the dynamic dns service
  - o Selected interfaces: Choose the used interface (the one which checked from device info / WAN)
  - o Username: The user name of your dynamic dns service
  - o Password: The password of your dynamic dns service
  - o Click apply/save

**Add Dynamic DNS**

D-DNS provider:

Hostname:

Selected Interfaces:

Available WAN Interfaces:

- ipoe\_0\_0\_33/atm0.1
- ipoe\_0\_0\_100/atm1.1
- ipoe\_0\_0\_35/atm2.1
- ipoe\_0\_1\_1/ptm0.1
- ipoe\_0\_1\_1.252/ptm0.2
- ipoe\_eth4/eth4.1
- 3G\_LTE0/ppp3g0

Username:

Password:

Update Period:

- From the system log you can see when the registration of dynamic DNS has done (device info / system log)
- Now you can call the camera from public network with your dynamic DNS
  - For example: the dynamic DNS host name is testi.dy.fi and the port of camera is 1024, call the camera with address testi.dy.fi:1024 -> camera will respond

