

IPv6 port forwarding

Huawei HG8245U



CGN PCP – port forwarding

- Ak si chce IPv6 zákazník zabezpečiť dostupnosť svojich LAN zariadení z internetu cez IPv4 – port forwarding, tak si to už nemôže definovať lokálne na HGV (keďže už nemá verejnú IPv4 adresu).
- Port forwarding si zákazník môže „vyžiadať“ cez port control protocol (PCP). V nastavení uvedie source/LAN IPv4 adresu, port a „vonkajší“ port, na ktorý si praje preNATovať.
- Túto žiadosť môže CGN (Carrier Grade NAT) plne akceptovať a zostrojí NAT, alebo upraví „vonkajší“ port.
- Pre PCP sú na CGN dovolené porty 1025-2047.



CGN PCP – port forwarding

- **Príklad CGN PCP (port forwarding) NATu:**

```
PCP Client      : 2a01:c844:600:300:a2e4:cbff:fe68:2b9c PCP lifetime : 2187
Mapping        : 192.168.255.101 : 8090 --> 178.143.33.22 : 1090
Session Count  : 0
Mapping State  : Active
B4 Address     : 2a01:c844:600:300:a2e4:cbff:fe68:2b9c |
```



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Browser tabs: HG8245H, What Is My IP? Shows yo

Address bar: 192.168.100.1/index.asp

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Status WAN LAN IPv6 WLAN Security Route **Forward Rules** Network Application Voice System Tools

PCP Configuration

Forward Rules > PCP Configuration

On this page, you can configure PCP mapping parameters.

Enable PCP:

WAN Name: 1_IPTV_INTERNET_R_VID_837

PCP Server: 2a01:c840:60:6:a:f:a:1

Apply Cancel

New Release

	Configuration Mode	External IPv4 Address	External Port	Internal Port	Protocol	Internal IPv4 Address	PCP Server Result Code	Allow PCP Port Proposal [Y/N]
<input type="checkbox"/>	Manual	178.143.35.157	1710	6060	TCP	192.168.100.4	Success	Y
<input type="checkbox"/>	Manual		0	6061	TCP	192.168.100.4	Unsuccess	N
<input type="checkbox"/>	Manual		0	6062	TCP	192.168.100.4	Config	N

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Status WAN LAN IPv6 WLAN Security Route **Forward Rules** Network Application Voice System Tools

PCP Configuration Forward Rules > PCP Configuration

On this page, you can configure PCP mapping parameters.

Enable PCP:

WAN Name: 1_IPTV_INTERNET_R_VID_837 ▼

PCP Server: 2a01:c840:60:6:a:f:a:1

Apply Cancel

[New](#) [Release](#)

	Configuration Mode	External IPv4 Address	External Port	Internal Port	Protocol	Internal IPv4 Address	PCP Server Result Code	Allow PCP Port Proposal [Y/N]
<input type="checkbox"/>	Manual	178.143.35.157	1710	6060	TCP	192.168.100.4	Success	Y
<input type="checkbox"/>	Manual		0	6061	TCP	192.168.100.4	Unsuccess	N
<input type="checkbox"/>	Manual		0	6062	TCP	192.168.100.4	Config	N

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Internal IPv4 Address: 192.168.100.4 *

Internal Port: 8100 *(1-65535)

Protocol: TCP ▼ *

Required External IPv4 Address:


Required External Port: 1100 (0-65535)

Allow PCP Port Proposal: Y ▼ *

Apply Cancel



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Status WAN LAN IPv6 WLAN Security Route **Forward Rules** Network Application Voice System Tools

PCP Configuration Forward Rules > PCP Configuration

DMZ Configuration

Port Mapping Configuration

Port Trigger Configuration

On this page, you can configure PCP mapping parameters.

Enable PCP:

WAN Name: 1_IPTV_INTERNET_R_VID_837 ▼

PCP Server: 2a01:c840:60:6:a:f:a:1

Apply Cancel

New Release

	Configuration Mode	External IPv4 Address	External Port	Internal Port	Protocol	Internal IPv4 Address	PCP Server Result Code	Allow PCP Port Proposal [Y/N]
<input type="checkbox"/>	Manual	178.143.35.157	1710	6060	TCP	192.168.100.4	Success	Y
<input type="checkbox"/>	Manual		0	6061	TCP	192.168.100.4	Unsuccess	N
<input type="checkbox"/>	Manual		0	6062	TCP	192.168.100.4	Config	N
<input type="checkbox"/>	Manual	<u>178.143.35.157</u>	<u>1100</u>	<u>8100</u>	TCP	<u>192.168.100.4</u>	Success	Y

to From

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	Configuration Mode	External IPv4 Address	External Port	Internal Port	Protocol	Internal IPv4 Address	PCP Server Result Code	Allow PCP Port Proposal [Y/N]
<input type="checkbox"/>	Manual	178.143.35.157	1710	6060	TCP	192.168.100.4	Success	Y
<input type="checkbox"/>	Manual		0	6061	TCP	192.168.100.4	Unsuccess	N
<input type="checkbox"/>	Manual		0	6062	TCP	192.168.100.4	Config	N
<input type="checkbox"/>	Manual	178.143.35.157	1100	8100	TCP	192.168.100.4	Success	Y

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Internal IPv4 Address:	<input type="text" value="192.168.100.4"/> *
Internal Port:	<input type="text" value="80"/> *(1-65535)
Protocol:	TCP ▼*
Required External IPv4 Address:	<input type="text"/>
Required External Port:	<input type="text" value="80"/> (0-65535)
Allow PCP Port Proposal:	Y ▼*



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Status WAN LAN IPv6 WLAN Security Route **Forward Rules** Network Application Voice System Tools

PCP Configuration

Forward Rules > PCP Configuration

DMZ Configuration

Port Mapping Configuration

Port Trigger Configuration

On this page, you can configure PCP mapping parameters.

Enable PCP:

WAN Name: 1_IPTV_INTERNET_R_VID_837

PCP Server: 2001:2810:60:6:fe:f4

...Ked si ONT bude žiadať vonkajší port, ktorý je mimo dovoleného rozsahu 1025 – 2047, tak mu CGN prideli iný z tohto rozsahu. V tomto prípade namiesto 80 dostáva 1739.

	Configuration Mode	External IPv4 Address	External Port	Internal Port	Protocol	Internal IPv4 Address	PCP Server Result Code	Allow PCP Port Proposal [Y/N]
<input type="checkbox"/>	Manual	178.143.35.157	1710	6060	TCP	192.168.100.4	Success	Y
<input type="checkbox"/>	Manual		0	6061	TCP	192.168.100.4	Unsuccess	N
<input type="checkbox"/>	Manual		0	6062	TCP	192.168.100.4	Config	N
<input type="checkbox"/>	Manual	178.143.35.157	110	8000	TCP	192.168.100.4	Success	Y
<input type="checkbox"/>	Manual	178.143.35.157	1739	80	TCP	192.168.100.4	Success	Y

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