

Product configuration

PUQVPNCP module **WHMCS**

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Create the product

1. Navigate to **System Settings** → **Products/Services** → **Products/Services** → **Create a New Product**.
2. Product Type: **Other**. Give it a name (e.g. `VPN - 100 Mbit/s`).
3. On the **Module Settings** tab, pick **PUQ VPNcp** as the module and assign a server (or a server group).

After saving, the module injects a **PUQ VPNcp settings** panel below the standard module fields. All settings are persisted as JSON in `configuration24` of the product record.

Products/Services

Edit Product

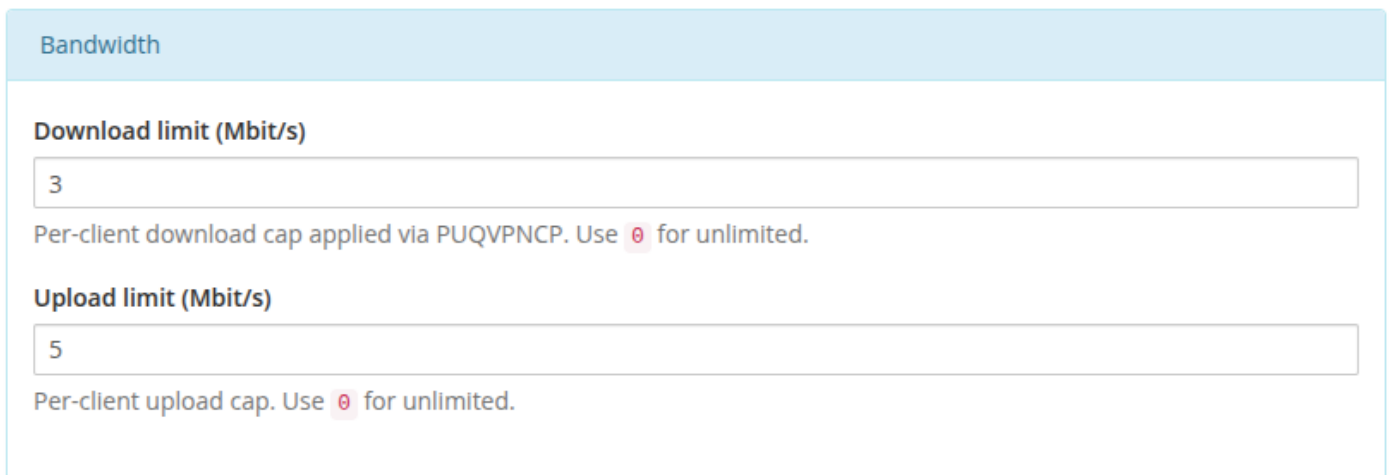
The screenshot shows the 'Edit Product' interface for the 'PUQ VPNcp' module. The 'Module Name' is set to 'PUQ VPNcp' and the 'Server Group' is 'puqvpncp-pl'. The 'License key' is masked with 'XXXXXXXX-XXXXXXXX-XXXXXXXX-XXXXXXXX' and shows a success message: 'success: 2026-05-15T03:04:13+02:00'. The 'Bandwidth' section has 'Download limit (Mbit/s)' set to 3 and 'Upload limit (Mbit/s)' set to 5. The 'Client name' section has a 'Client name rule' set to 'vpn-{client_id}-{service_id}-{random_letter_4}'. The 'VPN Networks' section is titled 'Loaded 29 network(s) from 1 server(s) in group "puqvpncp-pl"'. It lists several networks, with 'TETS' selected. Other networks include '7-5992', '77_87_125_209', 'Default', 'Default_1', 'Default_2', 'Default_3', 'loadtest_net1 - Load test network 1', 'loadtest_net10 - Load test network 10', 'loadtest_net11 - Load test network 11', 'loadtest_net12 - Load test network 12', and 'loadtest_net13 - Load test network 13'. The 'Base macros' section shows '{client_id}' as WHMCS client ID and '{service_id}' as WHMCS service ID. The 'Random macros' section is empty.

06-product-configuration.png

License key

Paste your licence key into the **License key** field. The status row underneath shows the result of the most recent verification (`|success: <timestamp>` or an error). The module re-checks the licence on every product page render and caches the result for the validity period encoded in the licence response.

Bandwidth



Bandwidth

Download limit (Mbit/s)

Per-client download cap applied via PUQVPNCP. Use 0 for unlimited.

Upload limit (Mbit/s)

Per-client upload cap. Use 0 for unlimited.


07-product-config-bandwidth.png

- **Download limit (Mbit/s)** — per-client download cap. `|0|` = unlimited.
- **Upload limit (Mbit/s)** — per-client upload cap. `|0|` = unlimited.

The module applies these via `|PUT /api/v1/client/{name}|` right after creating the client. The `|POST /api/v1/client|` create call does not accept bandwidth fields — the limits are always pushed through the follow-up update.

If the bandwidth update fails, the freshly created client is **rolled back** with `|DELETE /api/v1/client/{name}|` so billing never starts charging for an uncapped VPN.

Client name

 Client name

Client name rule

```
vpn-{client_id}-{service_id}-{random_letter_4}
```

VPN client name template using macros.

Base macros:

`{client_id}` - WHMCS client ID

`{service_id}` - WHMCS service ID

Random macros:

`{random_digit_x}` - Random digits (x = length)

`{random_letter_x}` - Random letters a-z (x = length)

Date & time macros:

`{unixtime}`, `{year}`, `{month}`, `{day}`, `{hour}`, `{minute}`, `{second}`

Example: `vpn-{client_id}-{service_id}-{random_letter_4}`

08-product-config-client-name.png

- **Client name rule** — template used to generate the VPN client identifier. Default:

```
vpn-{client_id}-{service_id}-{random_letter_4}
```

Available macros:

Base macros

- `{client_id}` — WHMCS client ID
- `{service_id}` — WHMCS service ID

Random macros

- `{random_digit N}` — N random digits (e.g. `{random_digit 5}`)
- `{random_letter N}` — N random lowercase letters

Date & time macros

- `{unixtime}`, `{year}`, `{month}`, `{day}`, `{hour}`, `{minute}`, `{second}`

If the generated name already exists in `tblhosting.username`, the module appends `-1`, `-2`, ... until it finds a free one.

Client Area

Client Area

Link to instruction

Optional URL shown as *User manual* button in the client area.

09-product-config-client-area.png

- **Link to instruction** — optional URL shown as a **User manual** button at the top of the client-area home screen. Leave empty to hide the button.

Welcome Email

Welcome Email

Send welcome email after account provisioning
Sends a welcome email to the client with connection details, WireGuard config text and QR code.

Email template

WHMCS *Product/Service* template used for the welcome email. Leave on **Module default** to use **PUQ VPNcp - Welcome**.

Default template
PUQ VPNcp - Welcome EXISTS

Create if missing adds the template only if absent (keeps your edits). Reset to default overwrites its subject & body back to the shipped default. Edit the body any time in *Setup* → *Email Templates* → *Product/Services*.

34-product-config-welcome-email.png


Send the customer everything they need to connect the moment their service goes live — automatically.

- **Send welcome email after account provisioning** — when ticked, the module emails the client right after the VPN account is created. The message includes the connection details, the full WireGuard config text and an inline QR code, plus a direct link to manage the service.
- **Email template** — which WHMCS *Product/Service* email template to send. Leave it on **Module default** to use the bundled **PUQ VPNcp - Welcome** template, or pick any of your own templates.
- **Default template** — a one-click manager for the bundled template:
 - **Create if missing** — adds the **PUQ VPNcp - Welcome** template only if it does not exist yet (your edits are never overwritten). The badge shows **EXISTS** once it is in place.
 - **Reset to default** — restores the shipped subject and body (use it if you edited the template and want to start over).

You can edit the template body any time in **Setup → Email Templates → Product/Services**. It supports these merge variables: `|{$puq_client_name}|`, `|{$puq_vpn_ip}|`, `|{$puq_vpn_username}|`, `|{$puq_vpn_password}|`, `|{$puq_wg_config}|`, `|{$puq_wg_qr_html}|`, `|{$puq_service_url}|`.

“ The template is also auto-created on the first send if it is still missing, so the feature works even if you never touch the buttons.

Speed presets (Configurable Options)

 Speed presets (Configurable Options)

Creates two WHMCS *Configurable Options* — **Download limit (Mbit/s)** and **Upload limit (Mbit/s)** — with ready-made speed presets (Unlimited, 10, 25, 50, 100, 250, 500, 1000 Mbit/s), priced at 0, and links them to this product. The customer's choice overrides the product's default limits for that order.

CREATED & LINKED

+ Create speed presets Done: group created, 2 option(s) created, 16 preset(s) added, linked to this product.

Safe to click repeatedly — only missing pieces are added. After creating, set per-preset pricing (if you charge for higher speeds) under *Setup → Products/Services → Configurable Options*, then save this product to refresh.

35-product-config-speed-presets.png

WHMCS **Configurable Options** let your customers choose their own download/upload speed at

order time and change it later through an upgrade/downgrade — turning a single product into a whole speed-tier line-up. The module reads the selected values and applies them to the VPN client, overriding the product's default bandwidth.

Setting these up by hand is fiddly, so the module does it for you with **one button**.

One-click creation

Click **Create speed presets** and the module instantly builds and links everything:

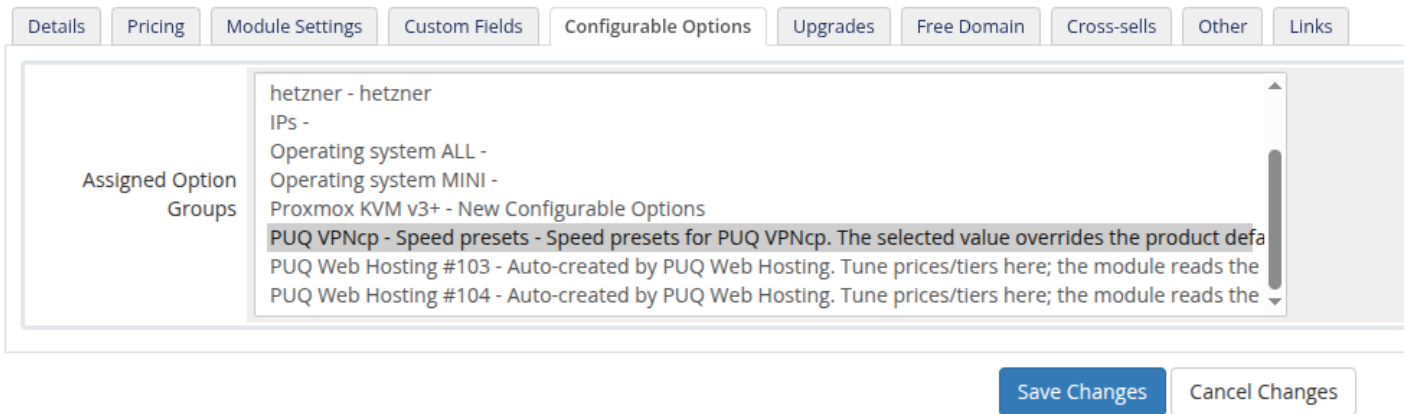
- a configurable-option group **PUQ VPNcp - Speed presets**;
- two dropdown options — **Download limit (Mbit/s)** and **Upload limit (Mbit/s)**;
- ready-made presets in each: **Unlimited, 10, 25, 50, 100, 250, 500, 1000 Mbit/s**, priced at `|0|` in every currency;
- a link from the group to the current product.

The button is **safe to click repeatedly** — only missing pieces are added, so your prices and edits are preserved. The status badge reflects the current state: *Not created yet* → *Created & linked*.

What gets created

| Option Name | Type | Reads as | Preset sub-options (<code> value label </code>) |
|--|----------|----------------------------------|--|
| <code> puqVPNcp_b_download Download limit (Mbit/s) </code> | Dropdown | per-client download cap (Mbit/s) | <code> 0 Unlimited , 10 10 Mbit/s , 25 25 Mbit/s , 50 50 Mbit/s , 100 100 Mbit/s , 250 250 Mbit/s , 500 500 Mbit/s , 1000 1000 Mbit/s </code> |
| <code> puqVPNcp_b_upload Upload limit (Mbit/s) </code> | Dropdown | per-client upload cap (Mbit/s) | same set as above |

The text before the `| |` is the internal name the module matches on; the text after the `| |` is what the customer sees. The sub-option value `|0|` means **Unlimited**.



36-configurable-options-assigned.png

The group appears on the product's **Configurable Options** tab (already ticked under *Assigned Option Groups*) and under **System Settings → Products/Services → Configurable Options**.

Configurable Option Groups

Manage Group

| | |
|-------------------|--|
| Group Name | PUQ VPNcp - Speed presets |
| Description | Speed presets for PUQ VPNcp. The selected value overrides the product default download/upload limit for the order (Mbit/s; 0 = unlimited). |
| Assigned Products | <ul style="list-style-type: none"> PUQVPNCP - vpn1 HOSTING - Hosting 1/10 HOSTING - Vanity Proxmox KVM - VPS Start Proxmox KVM - VPS Pro Proxmox KVM - VPS Support - Support 5h Support - Support 1h |

Configurable Options

Add New Configurable Option

| Option | Sort Order | Hidden | |
|---|------------|--------------------------|---|
| puqVPNcp_b_download Download limit (Mbit/s) | 0 | <input type="checkbox"/> |   |
| puqVPNcp_b_upload Upload limit (Mbit/s) | 1 | <input type="checkbox"/> |   |

37-configurable-options-group.png

Pricing the tiers

By default every preset is free (), so customers can switch speeds at no cost. To monetise faster tiers, open each option and set per-cycle pricing on the sub-options — for example charge more for than for .

Configurable Options

Option Name: Option Type:

| Options | | One Time/ Monthly | Quarterly | Semi- Annual | Annual | Biennial | Triennial | Order | Hide |
|----------------|---------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------|--------------------------|
| 0 Unlimited | EUR | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | 0 | <input type="checkbox"/> |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | PLN | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | UAH | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| USD | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | | |
| | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | | |
| 10 10 Mbit/s | EUR | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | 1 | <input type="checkbox"/> |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | PLN | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | UAH | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| USD | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | | |
| | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | | |
| 25 25 Mbit/s | EUR | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | 2 | <input type="checkbox"/> |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |

38-configurable-options-download.png

Configurable Options

Option Name: Option Type:

| Options | | One Time/ Monthly | Quarterly | Semi- Annual | Annual | Biennial | Triennial | Order | Hide |
|----------------|---------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------|--------------------------|
| 0 Unlimited | EUR | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | 0 | <input type="checkbox"/> |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | PLN | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | UAH | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| USD | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | | |
| | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | | |
| 10 10 Mbit/s | EUR | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | 1 | <input type="checkbox"/> |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | PLN | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | UAH | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |
| USD | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | | |
| | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | | |
| 25 25 Mbit/s | EUR | Setup | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | 2 | <input type="checkbox"/> |
| | | Pricing | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | <input type="text" value="0.00"/> | | |

39-configurable-options-upload.png

After changing pricing, **save the product** to refresh the panel status.

How the value is applied

| Priority | Source | When used |
|----------|--------|-----------|
|----------|--------|-----------|

| | | |
|----------|--|---|
| 1 (wins) | Configurable Option selection | whenever the option is assigned to the service (including <code> 0 </code> = unlimited) |
| 2 | Product Bandwidth default (Module Settings) | when no speed option is assigned |

On **provisioning** and on every **upgrade/downgrade** (WHMCS calls the module's change-package routine for configurable-option changes too), the module pushes the resolved `|b_download|` / `|b_upload|` to the panel via `PUT /api/v1/client/{name}`. So a customer who upgrades from *100 Mbit/s* to *500 Mbit/s* gets the new speed applied automatically, with no manual work for you.

“ Adding the speed options is optional. Skip the button and every service simply uses the product's **Bandwidth** defaults.

VPN Networks

Tick which **server** → **network** pairs are allowed for this product. Order matters: the top-most pair is tried first; the first one that has a free IP *and* a free license slot is used. If nothing is ticked, the server WHMCS already assigned is used and the panel picks a network automatically.

Loaded 29 network(s) from 1 server(s) in group "puqvpncp-pl"

✓ new-dev.puqvpncp.com (dev.puqvpncp.com) · license slots: 1853/5050

- 7-5092
- 77_87_125_209
- Default
- Default_1
- Default_2
- Default_3
- TETS
- loadtest_net1 – Load test network 1
- loadtest_net10 – Load test network 10
- loadtest_net11 – Load test network 11
- loadtest_net12 – Load test network 12
- loadtest_net13 – Load test network 13
- loadtest_net14 – Load test network 14
- loadtest_net15 – Load test network 15
- loadtest_net16 – Load test network 16
- loadtest_net17 – Load test network 17
- loadtest_net18 – Load test network 18

10-product-config-vpn-networks.png

On opening the product, the module contacts **every enabled** `puqVPNcp` **server in the product's server group** and calls `GET /api/v1/network` on each. The UI then shows a per-server tree — unreachable servers remain visible with their error so you can see exactly what went wrong. License-slot capacity (`used / total`) is displayed next to each reachable server.

Each checkbox is a `server → network` pair. Ticking the same network name on two different servers creates two independent pairs.

How a server and network are picked at deploy time

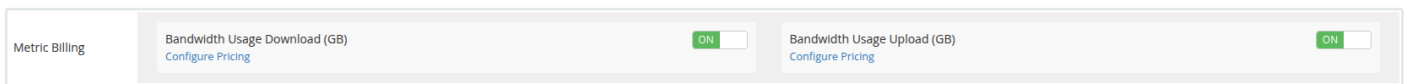
1. The module reads all ticked pairs in the order they appear in the list (top to bottom).

2. For each pair it checks (a) free licence slots on that server (`|count_accounts < count_accounts_available|` from `|GET /api/v1/system/status|`) **and** (b) at least one free IP on the network (`|GET /api/v1/network/{name}/available_ip|`).
3. **The first pair that passes both checks wins.** The service is **reassigned** (`|tblhosting.server|` is updated) to the selected server, and the client is created on the selected network via `|POST /api/v1/client|`.
4. If nothing is ticked, `|network_name|` is omitted from the create call and the panel of the server WHMCS already picked decides automatically.
5. If ticks exist but none is deployable (every chosen server is out of slots or every chosen network is full), provisioning fails — nothing is silently created on a wrong network.

Because order matters, put your **preferred** pairs at the top.

If the whole group is unreachable a red banner appears at the top of the section; previously saved ticks are preserved through hidden inputs so your configuration is not lost when you re-save the product.

Metric Billing (optional)



11-product-config-metric-billing.png

The module ships a WHMCS **Usage Billing** provider with two metrics:

- **Bandwidth Usage Download (GB)**
- **Bandwidth Usage Upload (GB)**

Enable the metrics on the product's **Pricing** tab to charge customers per GB of traffic. The provider pulls daily totals directly from the panel via `|GET /api/v1/client/{name}/traffic/{Y}/{m}|` and reports them in gigabytes for the current calendar month. No local accumulation table is used — values come live from the panel each time WHMCS runs the usage-billing cron.

Revision #5

Created 16 April 2026 15:04:07 by Ruslan

Updated 22 June 2026 17:18:16 by Ruslan