



PacketController Quota Subscriber

Version: 7.0

Updated: Nov. 2020

PacketController Network

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Table of Contents

Overview.....4
Service Plan Creation4
Quota Plan Creation.....5
Add Subscriber6
Quota Stats.....7

Overview

Most mobile contracts have a monthly data quota, limiting the amount you can download over the connection without incurring additional charges. The speed of subscriber is controlled by the amount of data utilized.

PacketController provides a very comprehensive Quota Management feature, we are going to illustrate how to achieve the following scenario in this document.

- Subscriber has 40GB monthly quota
- The daily usage is limited to 2GB and if it's over 2GB, the internet session is cut off.
- Within one-month period, when the subscriber bandwidth usage exceeds 35GB, the speed is 1024Kbps.
- When the bandwidth usage is more than 35GB and less than 40GB, the speed is 512Kbps.
- If additional 1GB is consumed by this subscriber, the customer will be cut off.
- Monthly quota usage report can be generated for billing purpose.

The detailed procedures please see the below

Service Plan Creation

- Click Subscriber -> Service Plan and click **Add** Button

| Name | Inbound | Outbound | Burst Condition | Action |
|---------|-----------|-----------|-----------------|--------|
| 40Mbps | 40000000 | 40000000 | | |
| 20Mbps | 20000000 | 20000000 | | |
| 10Mbps | 10000000 | 10000000 | | |
| 100Mbps | 100000000 | 100000000 | | |
| 512Kbps | 1024000 | 1024000 | | |

- Input name and bandwidth inbound/outbound

Add Service Plan

Name: 1024Kbps Priority: Priority: 5 (Normal)

Bandwidth Inbound: 1024000 Bandwidth Outbound: 1024000

Reserved Bandwidth: Total Bandwidth: No

Burst Inbound: Burst Outbound:

Burst Condition: None Burst Timeout:

Unburst: PPS Inbound:

PPS Outbound:

Close Save

- Click **Save** button
 - Repeat the procedures to add service plan 512Kbps and Block-SP
-

Notes:

The parameter of bandwidth inbound/outbound is bps.

The Block-SP service plan utilizes the Block (Deny) priority, the screenshot as below:

Add Service Plan ✕

| | | | |
|--------------------|---------|--------------------|--------------|
| Name | BlockSP | Priority | Block (Deny) |
| Bandwidth Inbound | | Bandwidth Outbound | |
| Reserved Bandwidth | | Total Bandwidth | No |
| Burst Inbound | | Burst Outbound | |
| Burst Condition | None | Burst Timeout | |
| Unburst | | PPS Inbound | |
| PPS Outbound | | | |

Close Save

Quota Plan Creation

- Click Subscriber -> Quota Plan and click **Add** Button

Quota Plan

Add

Display 10 records Search:

| Name | Direction | Daily Quota | Monthly Quota 1 | Monthly Quota 2 | Monthly Quota 3 | Action |
|------|-----------|-------------|-----------------|-----------------|-----------------|--------|
|------|-----------|-------------|-----------------|-----------------|-----------------|--------|

- Input the settings for the quota as below:

Add Quota Plan ✕

| | | | |
|--------------------|-----------|----------------------|-------------------------------------|
| Name | 40GBQuota | Direction | Combined |
| Notify | No | Notes | |
| Billing Cycle Day | 1 | Default Service Plan | 1024Kbps |
| Daily Quota (GB) | 2 | Daily Service Plan | 1024Kbps |
| Month Quota 1 (GB) | 35 | Service Plan 1 | 1024Kbps |
| Month Quota 2 (GB) | 40 | Service Plan 2 | 512Kbps |
| Month Quota 3 (GB) | 41 | Service Plan 3 | BlockSP |
| Exclusion Days | | | Select All <input type="checkbox"/> |
| Lower Hour | None | Upper Hour | None |

Close Save

- Click **Save** button

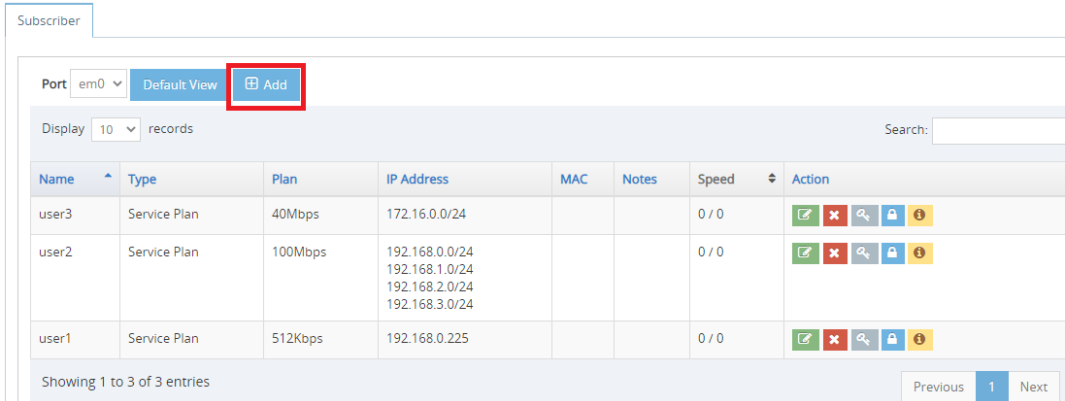
Notes:
















The direction is to calculate the bandwidth usage based on direction like Combined (both download and upload) or download only or upload only.

The Exclusion days/Lower Hour/Upper Hour is to exclude the bandwidth on days/time.

Add Subscriber

- Click Subscriber-> Subscriber, select the port and then click **Add** button



| Name | Type | Plan | IP Address | MAC | Notes | Speed | Action |
|-------|--------------|---------|--|-----|-------|-------|---|
| user3 | Service Plan | 40Mbps | 172.16.0.0/24 | | | 0 / 0 |      |
| user2 | Service Plan | 100Mbps | 192.168.0.0/24 192.168.1.0/24 192.168.2.0/24 192.168.3.0/24 | | | 0 / 0 |      |
| user1 | Service Plan | 512Kbps | 192.168.0.225 | | | 0 / 0 |      |

- Please fill in the forms of this user as below, select **Quota Plan** in Plan Type dropdown and **40GBQuota** in Service Plan dropdown

Add Subscriber ✕

| | | | | | |
|-------------|---|------------|--|------------------|-------------------------------------|
| Name | <input type="text" value="quotouser"/> | Premium | <input type="checkbox"/> | TCP Optimization | <input checked="" type="checkbox"/> |
| Email | <input type="text" value="support@packetcontroller.com"/> | Password | <input type="text" value="password"/> | | |
| Plan Type | <input type="text" value="Quota Plan"/> | Quota Plan | <input type="text" value="40GBQuota"/> | | |
| Group Type | <input type="text" value="None"/> | | | | |
| MAC Address | <input type="text"/> | VLAN | <input type="text"/> | | |
| IP Address | <input type="text" value="10.10.10.100"/> | | | | |

Notes: Select TCP Optimization for subscriber in most case.

- Click **Save** button
- Now the policies for this user has been automatically created, check QoS -> QoS Policy

Port: em0 Default View Manage

Display: 10 records Search:

| ID | Name | IP | Group | App | Service Plan | Speed | Action |
|-------|-----------|----------------|-------|------|--------------|-------|--|
| 10 | pcbox1 | 192.168.0.250 | | | | 0 / 0 | ✖ ✎ 🔒 |
| 20 | testicmp | | | icmp | | 0 / 0 | ✖ ✎ 🔒 |
| 40000 | user1 | 192.168.0.225 | | | 512Kbps | 0 / 0 | ✖ ✎ 🔒 |
| 40050 | user2 | | | | 100Mbps | 0 / 0 | ✖ ✎ 🔒 |
| 40051 | | 192.168.0.0/24 | user2 | | | 0 / 0 | ✖ ✎ 🔒 |
| 40052 | | 192.168.1.0/24 | user2 | | | 0 / 0 | ✖ ✎ 🔒 |
| 40053 | | 192.168.2.0/24 | user2 | | | 0 / 0 | ✖ ✎ 🔒 |
| 40054 | | 192.168.3.0/24 | user2 | | | 0 / 0 | ✖ ✎ 🔒 |
| 40100 | quotouser | 10.10.10.100 | | | 1024Kbps | 0 / 0 | ✖ ✎ 🔒 |

Quota Stats

You can review the subscriber statistics by clicking Log & Report-> Quota. You can check the Quota status of the subscribers as well as their actual data usage.

Quota Usage

All Users 2020-11 Run Report

Display: 10 records

| User | Quota Plan | Quota Direction | Status | Actual Usage | Month Allowance | Action |
|-----------|------------|-----------------|-------------|--------------|-----------------|----------------|
| quotouser | 40GBQuota | Combined | Under Quota | 0 | 35GB | 📄 |

