PacketController Quota Subscriber

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PacketController Network

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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 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.

Monthly usage	Speed
<30GB	4Mbps
>30GB and <35GB	3Mbps
>35GB and <39GB	2Mbps
>39GB and <40GB	1Mbps
>40GB	Block Internet Access

The detailed procedures please see the below

Add Service Plans

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

- Input name and bandwidth inbound/outbound

- Click **Save** button
- Repeat the procedures to add service plan P-2Mbps, P-3Mbps and P-4Mbps

Notes:
The parameter of bandwidth inbound/outbound is bps.
There is built-in Block-SP which is to cut off internet session.

Add Quota Plan

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

- Input the settings for the quota as below:

- Click **Save** button

Settings	Description
Name	The quota name, its length should be in range 5-15
Direction	The direction is to calculate the bandwidth usage based on direction. The options as below: **Combined**: both download and upload **Download**: download only **Upload**: upload only In most installation, Combined is used.
Notify	Whether to enable mail notification sent to the customer, if mail settings and subscriber mail set. The following events would trigger the notification. ● Daily overquota ● Monthly overquota ● Monthly1 overquota ● Monthly 2 overquota ● Monthly 3 overquota Please refer settings below.
Notes	The notes of quota and this setting is optional
Billing Cycle Day	The day of month of the billing cycle. For instance, if set to 1, it means the quota will be reset at 0:00 of first day on every month.

Default Service Plan	The service plan to use when the quota starts.
Daily Quota (GB)	The daily bandwidth usage threshold, this setting is to prevent the abusive usage for subscribers with quota plans.
Daily Service Plan	The service plan to use when daily quota exceeds, in most installation, Block-SP can be used to block the internet session.
Month Quota (GB)	The monthly bandwidth usage threshold, when month quota exceeds, the status is set to monthly overquota.
OverQuota Plan	The service plan to use when month quota exceeds, in most installation, Block-SP can be used to block the internet session.
Month Quota 1 (GB)	The month quota 1 threshold, please note that month quota 1/2/3 are used to switch the speed based on the bandwidth usage **WHEN month quota NOT exceeds.** The entire point of month quota 1/2/3 is to prevent the abusive usage. Month quota 1 are mandatory and month quota 2/3 are optional. Please note that PacketController quota system checks the quota usage by the following order: Month Quota Month Quota 3 Month Quota 2 Month Quota 1 So, make sure that Month Quota > Month Quota 3 > Month Quota 2 > Month Quota 1, in the example of this document: Month Quota: 40GB Month Quota 3: 39GB Month Quota 2: 35GB Month Quota 1: 30GB
Service Plan 1	The service plan to use when month quota 1 threshold exceeds.
Month Quota 2 (GB)	The month quota 2 threshold
Service Plan 2	The service plan to use when month quota 2 threshold exceeds.
Month Quota 3 (GB)	The month quota 3 threshold
Service Plan 3	The service plan to use when month quota 3 threshold exceeds.
Exclusion Days Lower Hour Upper Hour	The Exclusion days/Lower Hour/Upper Hour is to exclude the bandwidth usage counted on days/time. This feature is to set the free zone for the subscribers with quota plans. For instance, you could set subscribers to use bandwidth for free 8pm – 10pm on the weekends.

Add Subscriber

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

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

Notes: Select TCP Opt for subscriber in most case.

- Click **Save** button

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.

User	Quota Plan	Quota Direction	Status	Actual Usage	Month Allowance	Topup	Action
demouser170		Combined	Over Quota	0	GB	0GB	
glennbox		Combined	Over Quota	0	GB	0GB	
quota-user	3G-Quota	Combined	Under Quota	147.1MB	3GB	1GB	