Radius Guide

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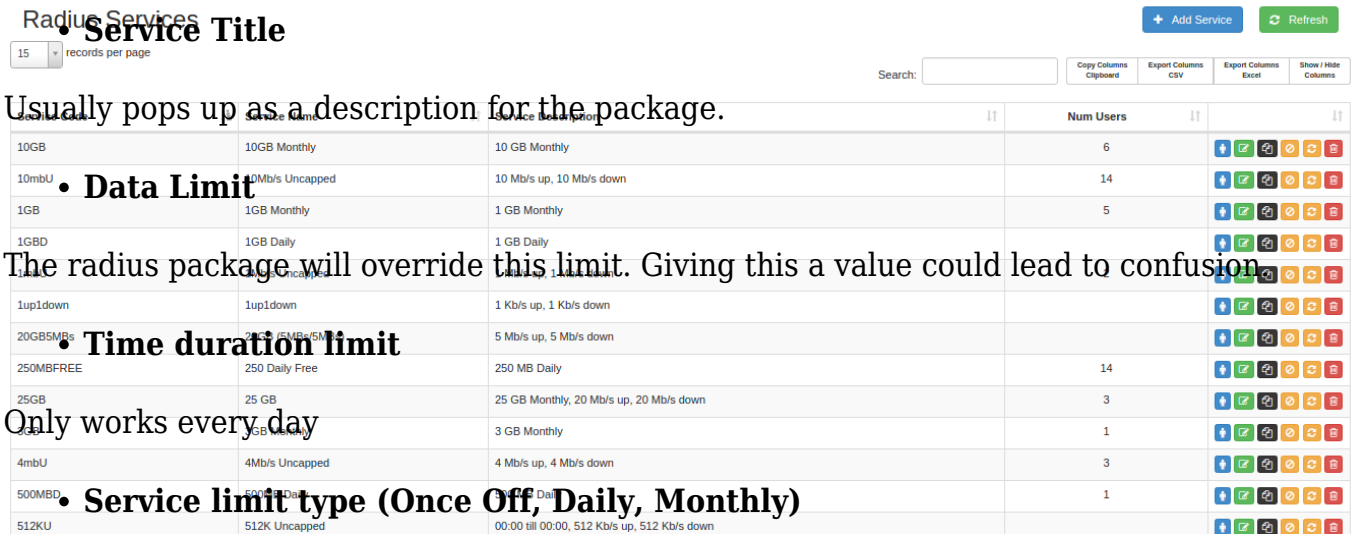
Radius Services

- Radius services control the speed of the radius user. The Data Package will override the data limit of the radius service.
- Go to Radius->Radius Services.
- Displayed is a list of all the radius services.

Service attributes

- **Service code**

You will need this when creating a radius package. It is advised to develop a naming system that includes the up and down speed. Check with your ISP if you have any conventions in this regard.



- **Service Title**

Usually pops up as a description for the package.

- **Data Limit**

The radius package will override this limit. Giving this a value could lead to confusion

- **Time duration limit**

Only works every day

- **Service limit type (Once Off, Daily, Monthly)**

Specifies whether the service runs

- **Time band limit (from when to when will the service be disabled**

- **Speed limit (Up/Down)**

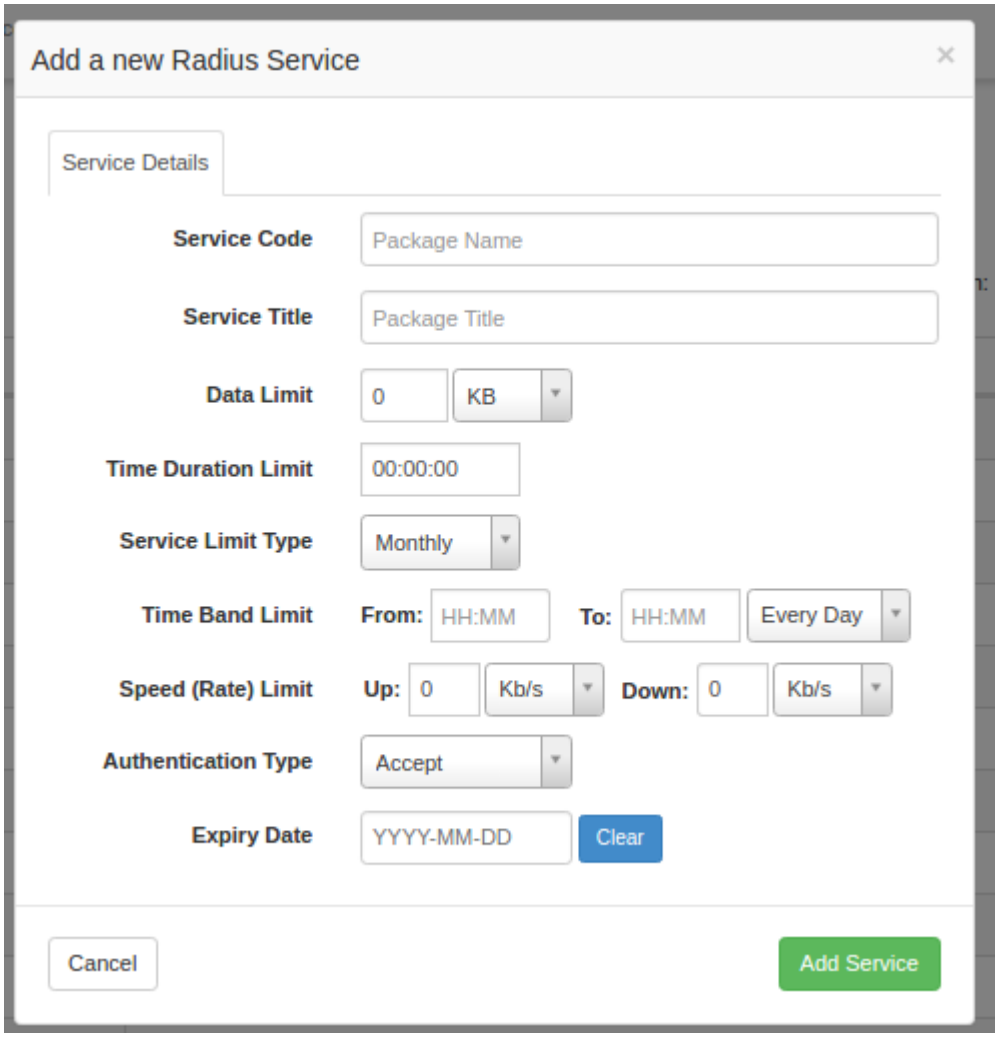
If the speed is set to zero, the speed will be zero.

- **Authentication (Accept/Reject)**
- **Expiry date**

If no date is set the service will not expire

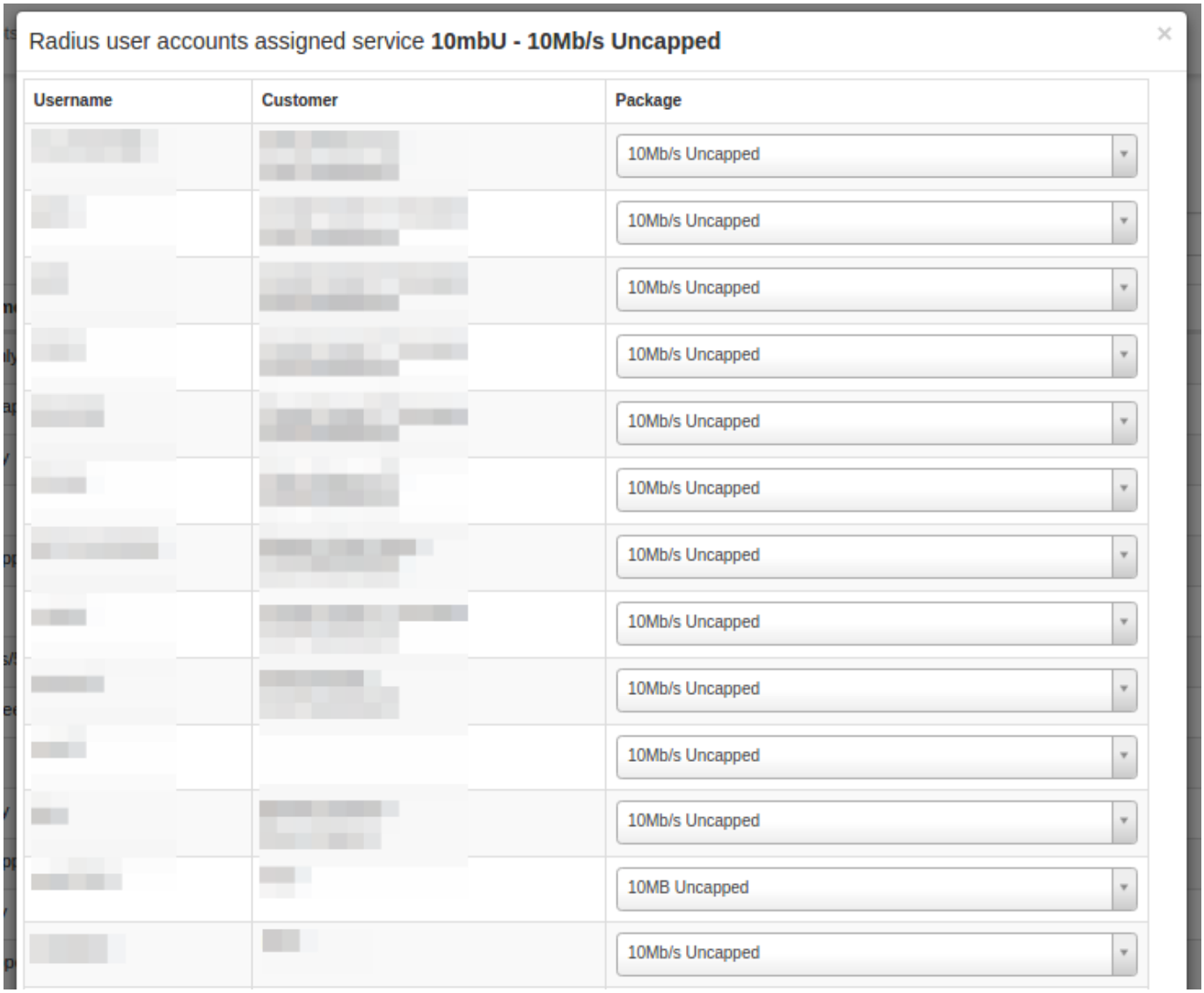
Add Service

- To add a service click on Add service on the top right of the page.
- Please refer to the list above for all the Radius Service attributes and there function.



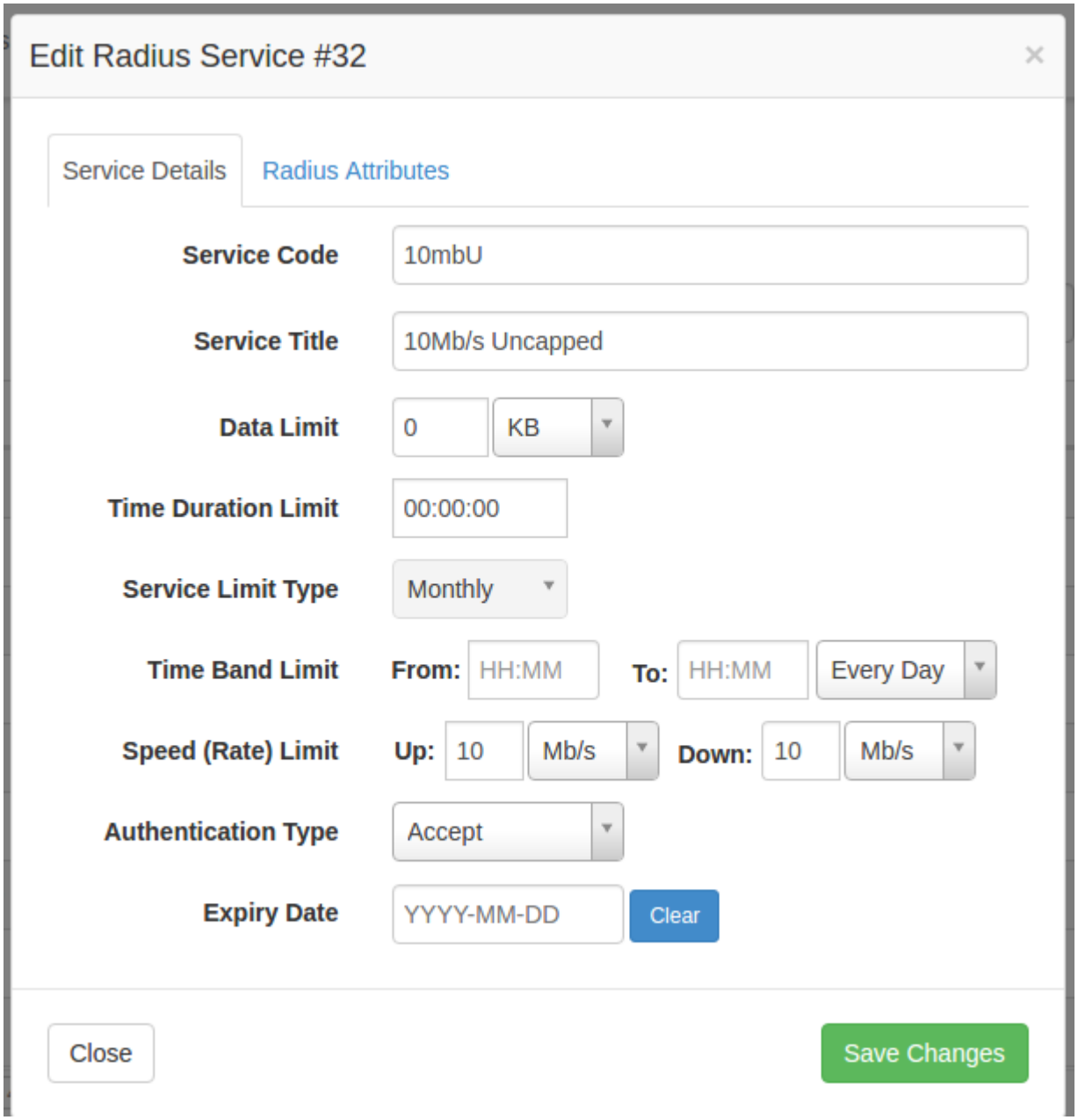
Radius service operations

Click on to show assigned radius users:



Edit Service

Click on to edit the radius service.



Clone Service

Click on to make a copy of the service.

Delete Service

Click on to delete the service. Note that these packages cannot be recovered.

Data Packages

About

Data Packages control the Cap of a Radius Service. If the customer needs a custom data expiry and data roll over settings this can be changed in the customers settings. Go to Radius->Data Packages

Package fields

- **Package code**

Check with your company if you have any naming conventions for the Package code. Here is a Package Nameing convention of some ISP.

- **Package Title**

You will need this when creating a radius user.

- **Radius Service**

Select the Radius service that the package will use. I.e. the speed of the data package.

- **Monthly Cap Size**

Sets the Cap limit for the Package. This overrides any pre-set Radius service monthly data limit. A monthly Cap Size of zero will make the product uncapped (0 = uncapped)

- **Uncapped Product**

(On/Off) This does not make the product uncapped. It merely shows the product in the appropriate category.

- **Auto Rollover**

(On/ Off) When the user reaches their Cap limit, the user will be moved onto another service. A service once capped is required. This will be until all the packages are reset at the start of the month.

- **Visible to admin**

If disabled admin users won't be able to select this product when editing radius accounts. E.g. it will not be possible to select the package when creating a radius user.

- **Visible to customer**

if disabled, then customers won't be able to select this product when signing up or switching packages.

- **Show cap on usage reports**

If hidden the Cap Size above acts as a softcap in conjunction with the Service below.

- **IP pool**

Leave blank if not using IP pooling. Spaces are not recommended

- **IP pool once capped**

Leave blank if not using IP pooling. Spaces are not recommended.

- **Service once capped**

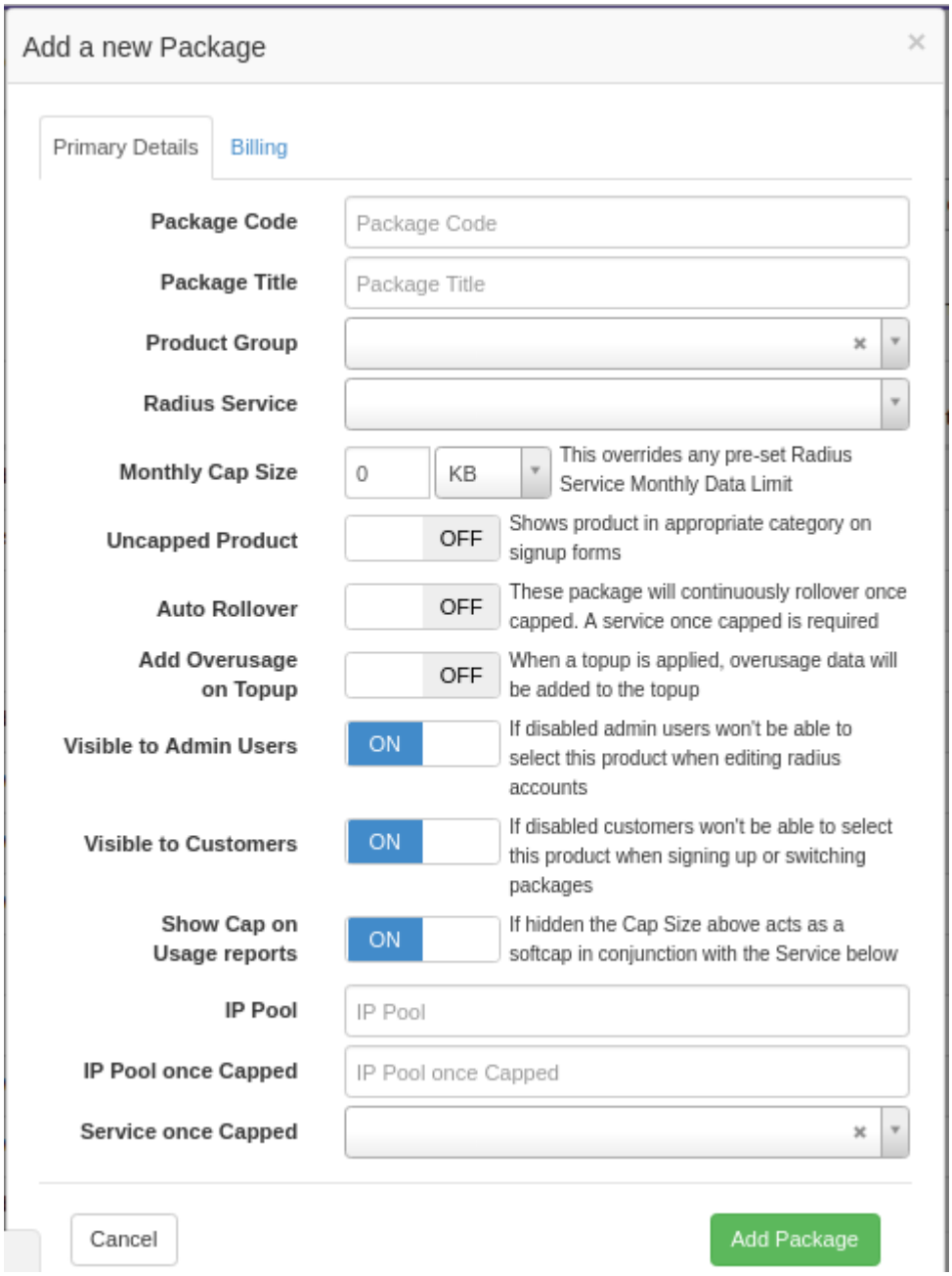
Once the cap limit is reached the service is changed to the selected service. This can be used to switch the customer's connection off by putting them onto a service with speed of zero. Or the customer could be put on a super slow package so that they can still go online and purchase more data.

- **Monthly cost**
- **Topup cost/GB**

Add Data Package

- Click on

- Fill in all the necessary fields
- Please refer to the data package field above for information on the fields.
- Click on Add package on the bottom of the model.

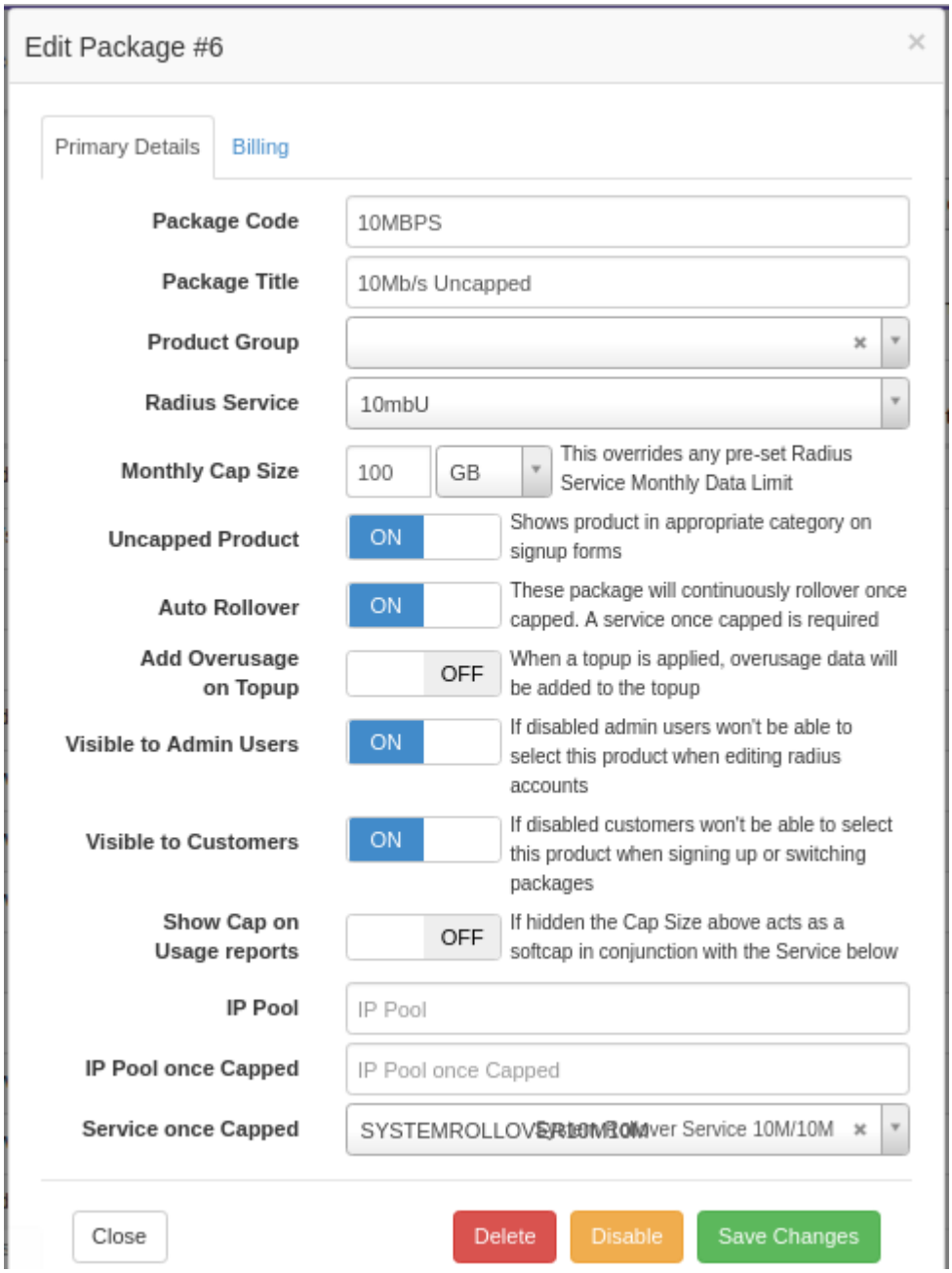


Package operations

Edit Package

Click on to edit the data package.

Please note that disabled service will not be able to be used. Disabled services will be hidden and can only be view by selecting. The option to disable a package is in the edit form.

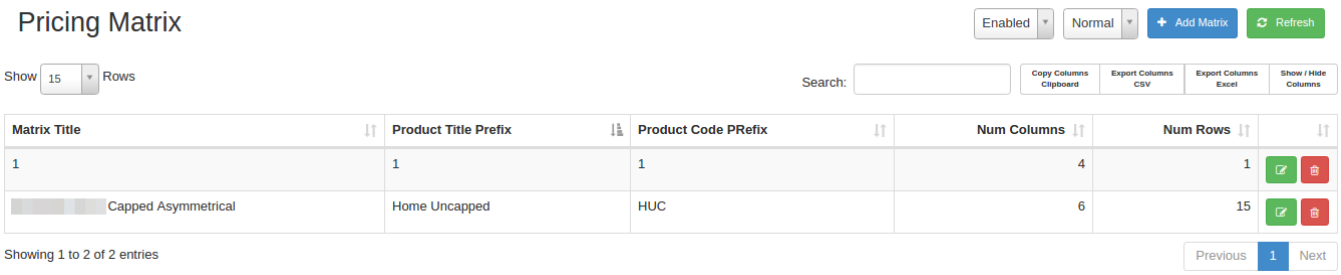


Clone

Click on to make a copy of the package.

Data Pricing Matrix

Go to **Radius -> Pricing Matrix**. This page is part of Radius. The data pricing matrix is an easy way to create and manage related Radius data products. Each Pricing Cell represents a Radius Data Package, These data packages are treated just like the rest of the data packages.

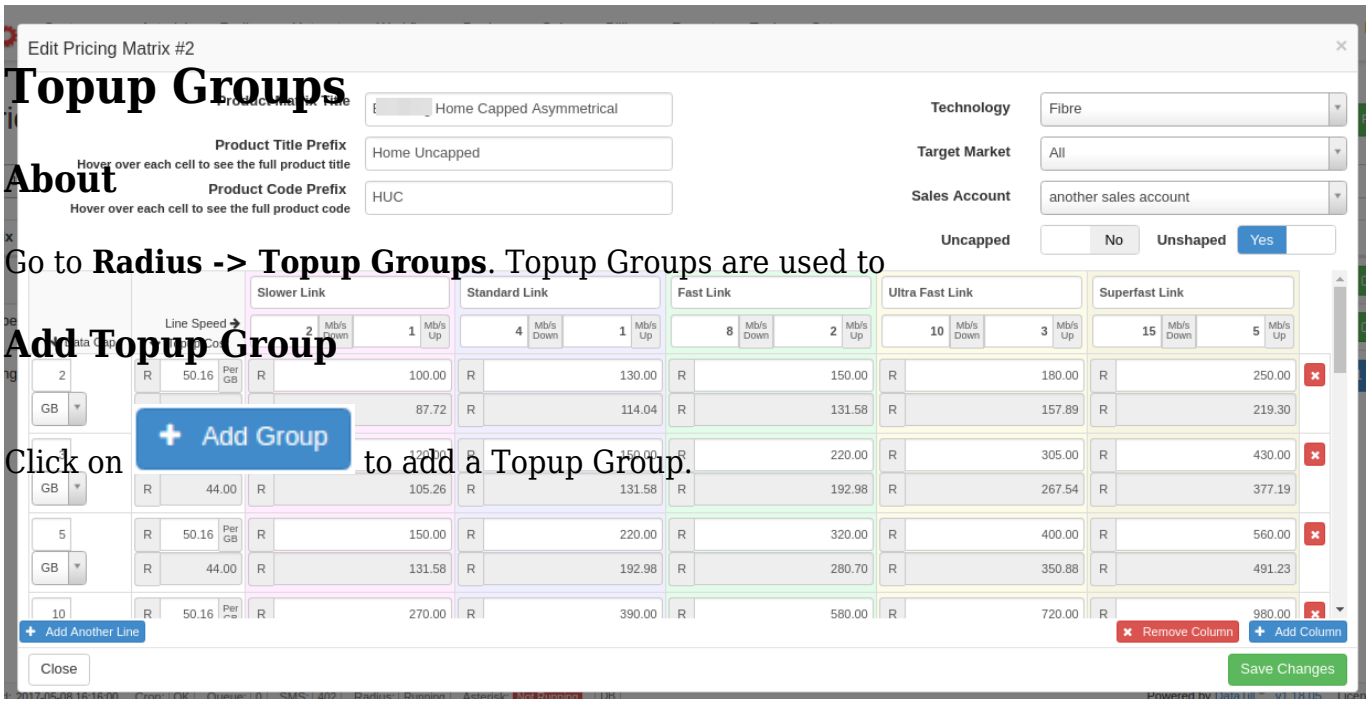


Topup Groups

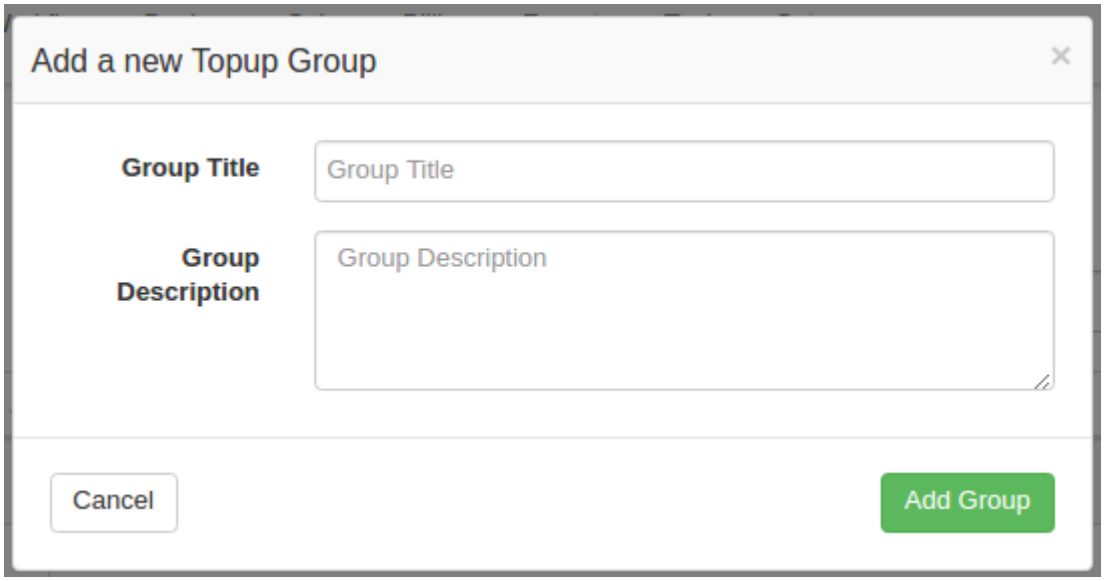
About

Go to **Radius -> Topup Groups**. Topup Groups are used to

Add Topup Group



Click on to add a Topup Group.



Edit Topup Group

You can edit the topup group by clicking on .

Enable a topup group by clicking on the button specified below:

Topup Types

Topup Attributes

- **Topup Title**
- **Topup Size**

Measured in KB,MB,GB or TB

- **Topup Cost**
- **Availability**

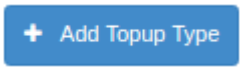
Topup availability can be restricted to the mobile app, website and/or topup groups.

- **Enable/Disable**

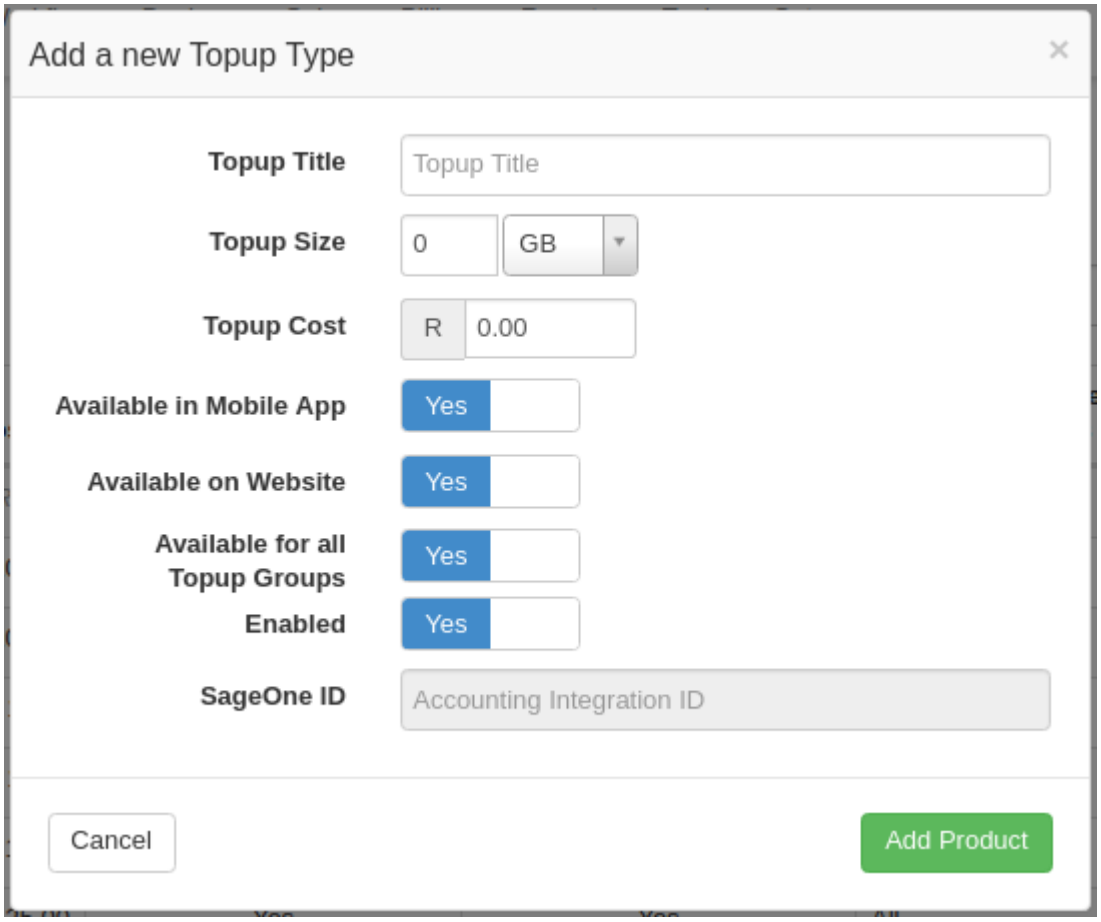
When topup are disabled it will not be possible to use the topup. Disabled topups are greyed out in the topup type list. To enable a topup, open the edit window and click on enable.

Add Topup Type

Go to **Radius -> Topup Types**.

Click on 

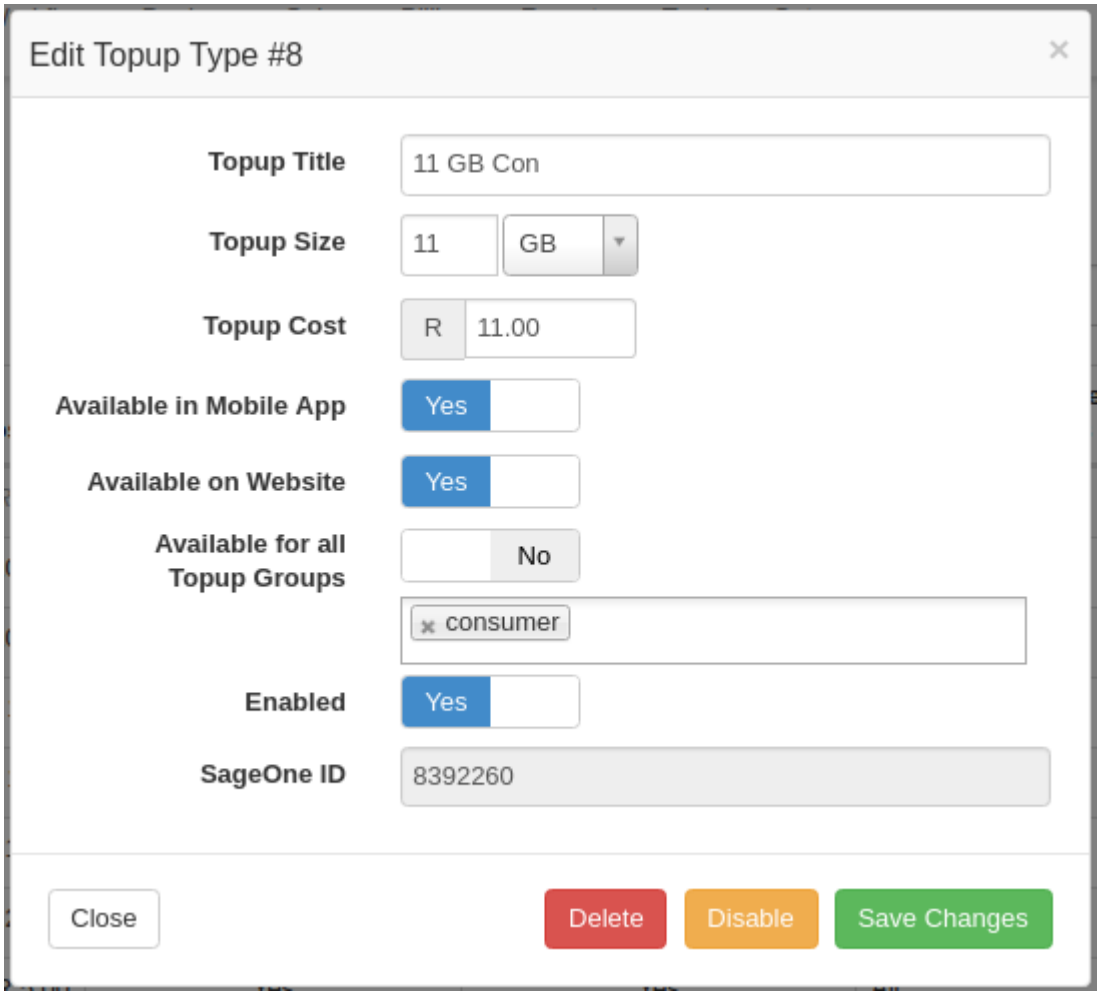
to add a topup type.



Edit Topup Type

Click on to edit the topup type.

The group can be enabled and disabled here



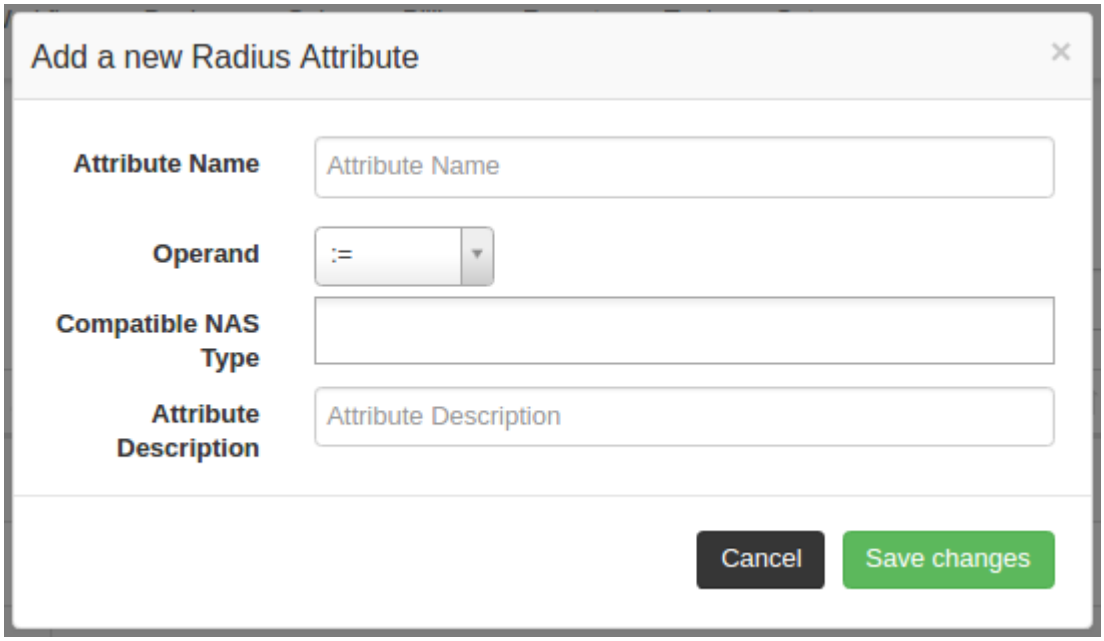
Custom Radius Attributes

Custom attributes can be added to radius accounts. When added to a user it can be given a value, which can be a text and/or numbers. This can be used to give additional information to radius users.

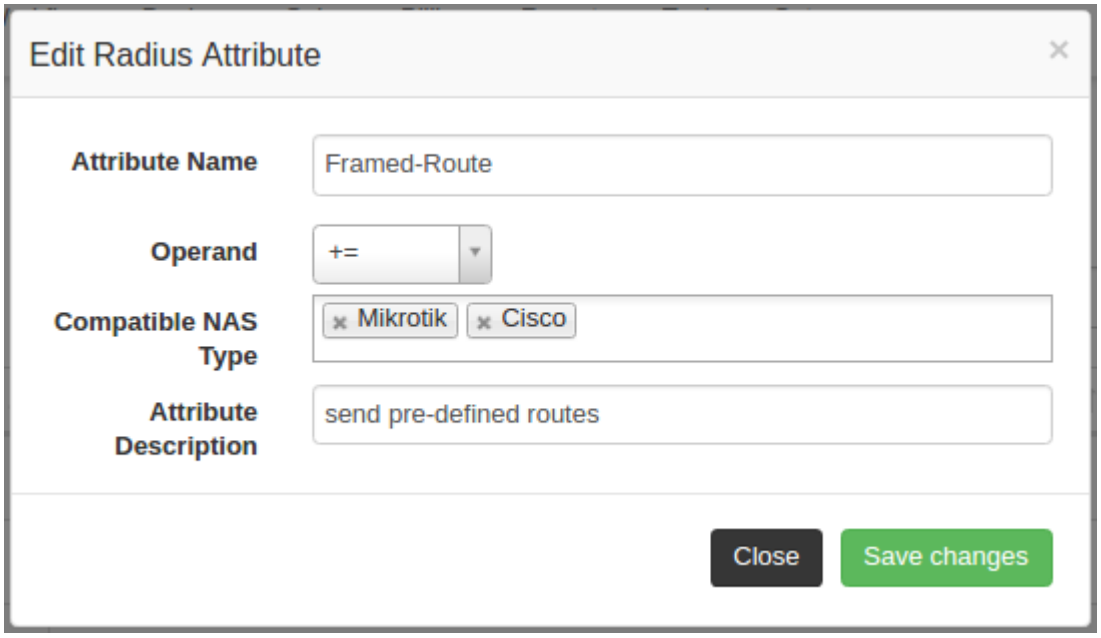
Add Radius Attributes

Click on

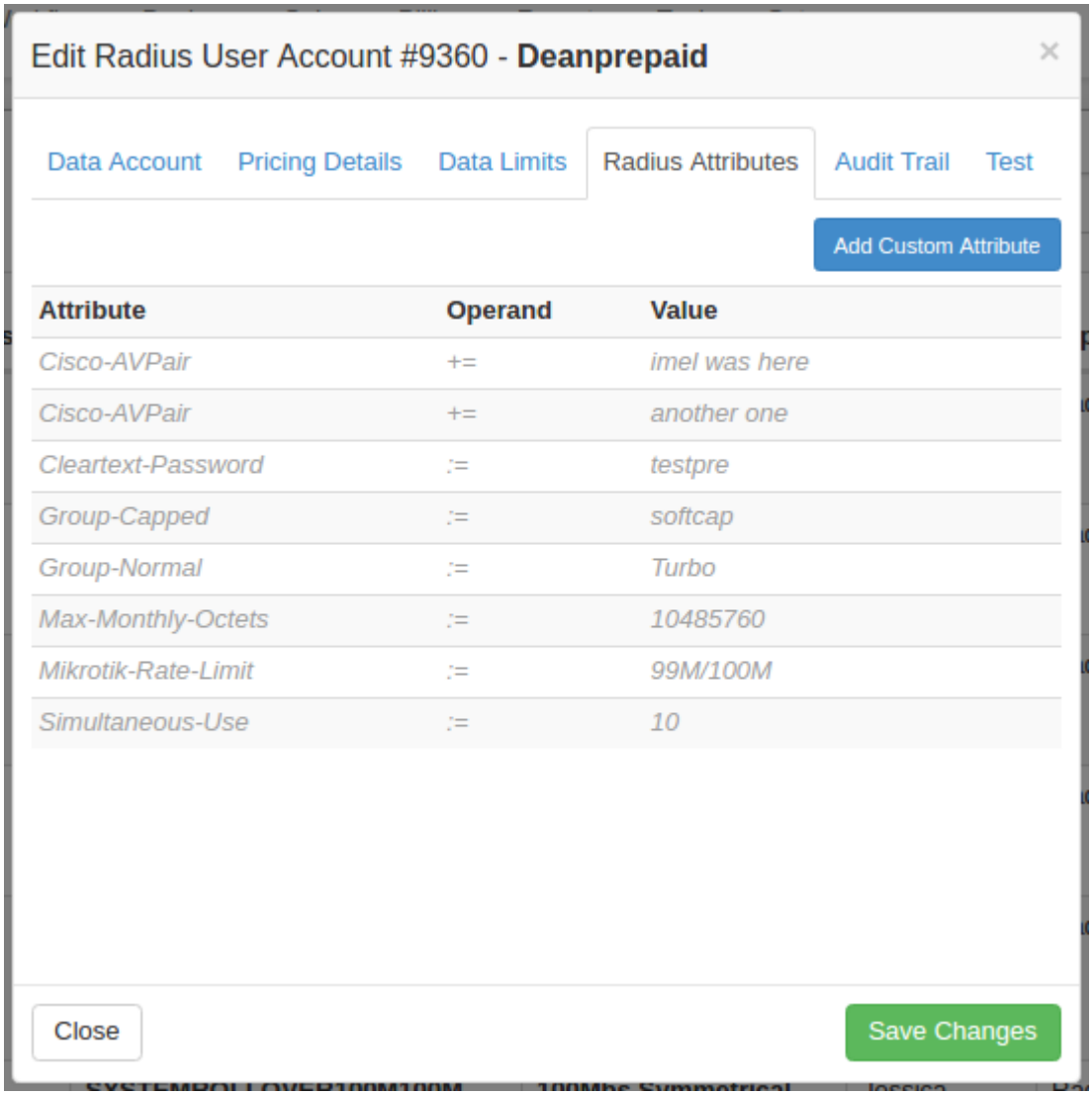
to add a radius attribute.



Click on to edit the radius attribute.



Here is an example of the Radius Attributes in a Radius user.



Radius Users

Radius users are created for a customer, and allow the user to connect to the network. They are dependent on customers and data packages.

Radius User Fields

- All Attributes in Bold are compulsory fiends. All fields in brackets are dependent on another field.
- Customer
- User type

- Allows the user to either logging with a user name or automatically by the MAC address of the device.
- (Login Username)
- (Password)
- (MAC)
- Account alias
- Account description
- Traffic counted via (Radius/ Netflow/ IP Accounting
- Prepaid account (Yes/No)
- Account type (Normal/Sub Account)
- (Sub Account)
    - All the data usage will be deducted from the parent account. All data used by this user is still tracked.
    - Sub accounts are listed under their respective parent accounts in the data usage summary.
    - For example, each person could have their own account and have subaccounts for their devices this allowing them to see how much data each device uses. But all using one capped account.
- Data Package

Select he radius data package, this will give the user a cap/uncapped and set the users speed, Etc.

- Expiry data
- Concurrent connections

The maximum number of simultaneous connections to this account.

- Fixed IP address

Fixed local IP address

- Authentication (Accept/ Reject)

If authentication is rejected the user will not be able to authenticate with radius and thus will not be able to gain access to the network.

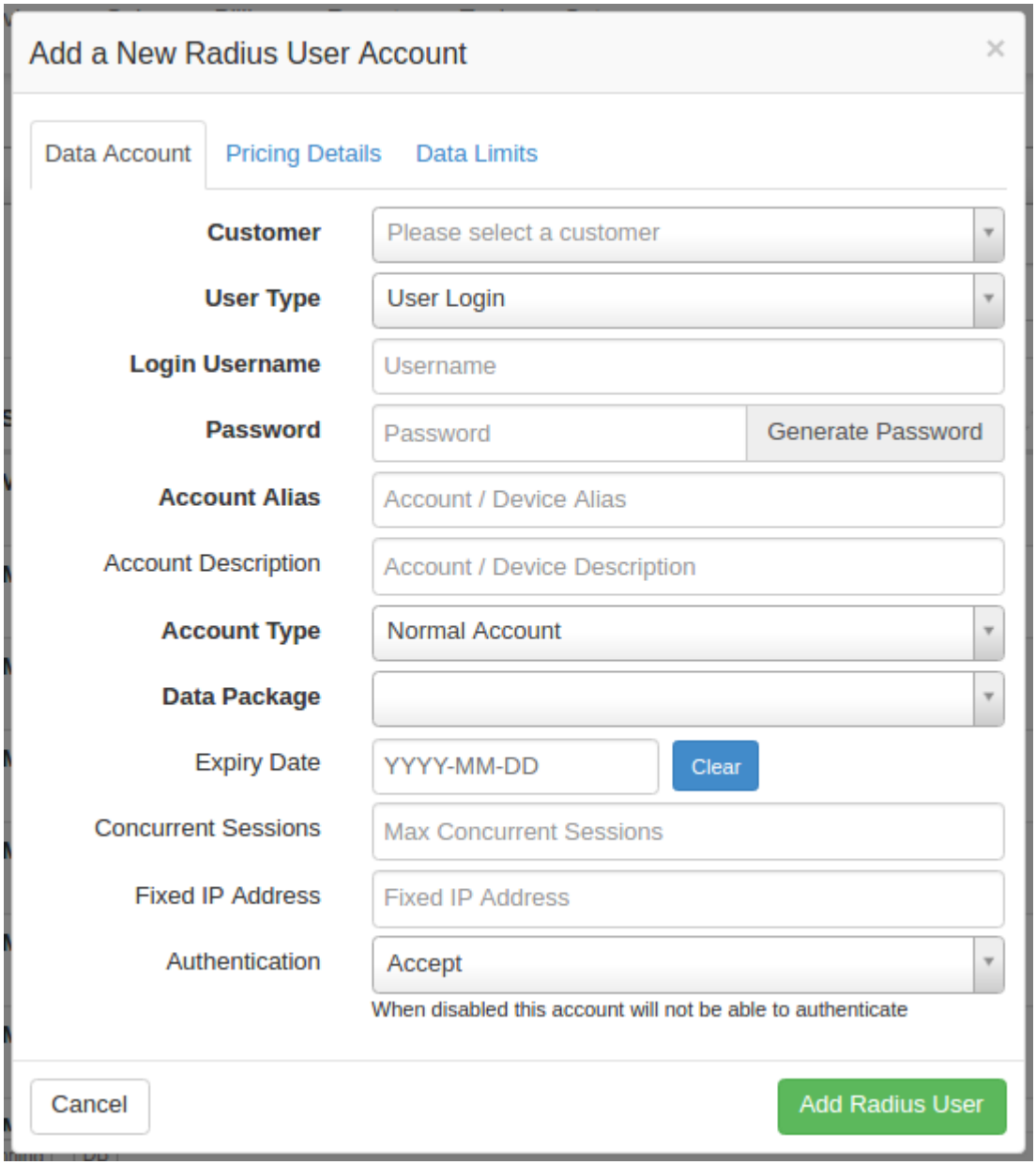
Radius user operations

Go to **Radius -> User Accounts**.

Add Radius User Account

Click on

to add a Radius User Account. Please see above for info on the add radius user fields.



View usage

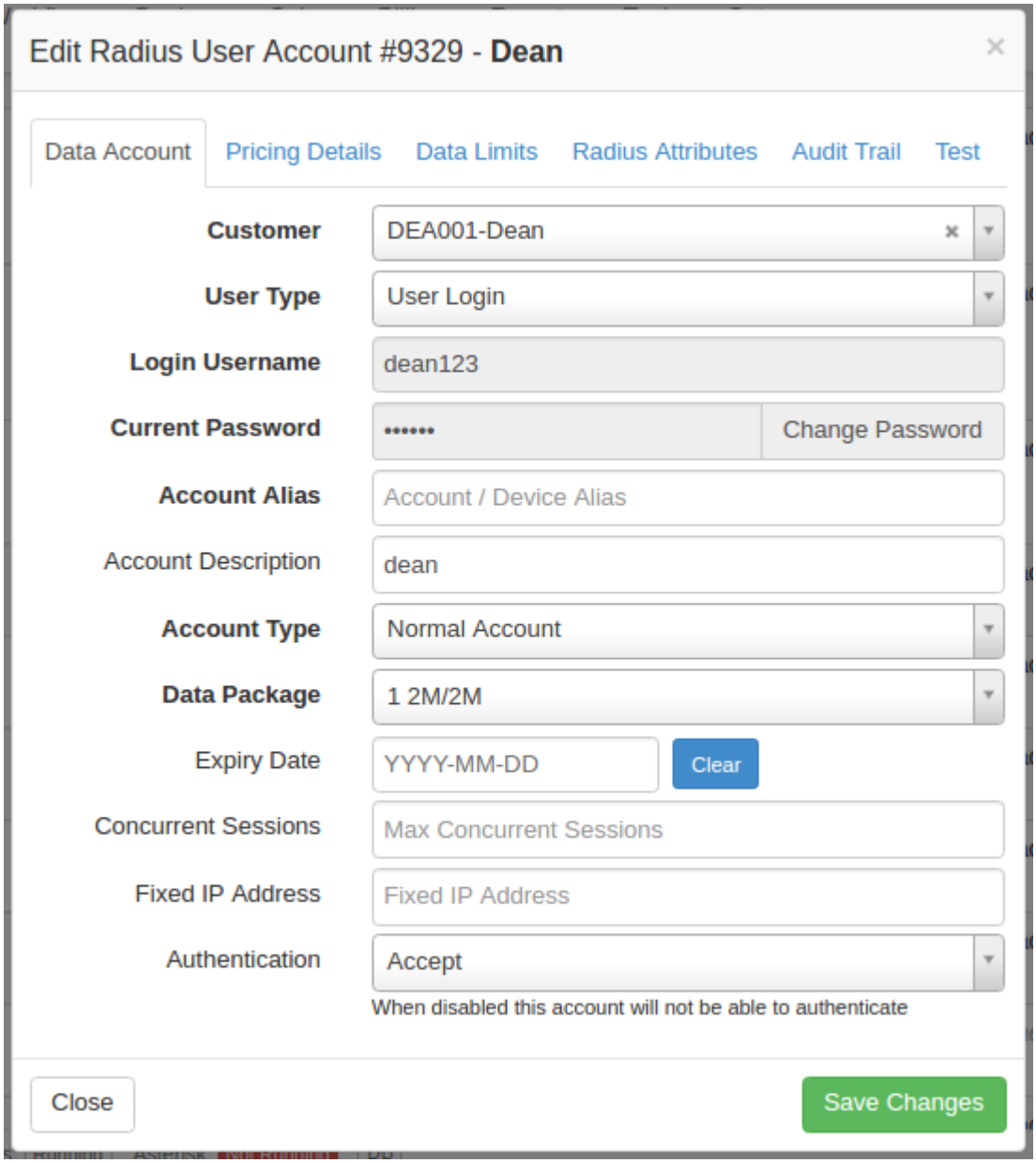
Click on to view the data usage used by the user to date.

This will show a brief summary of the data usage for the radius user.

Edit Radius User

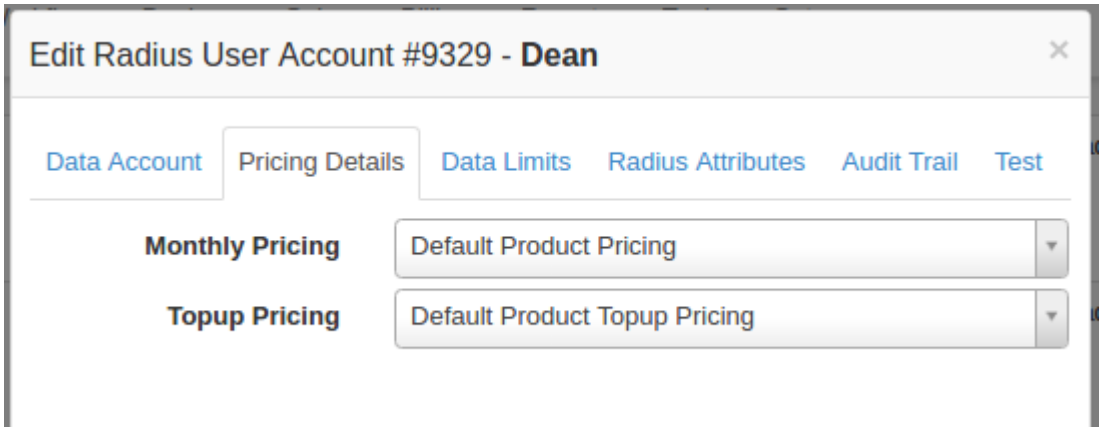
Click on to edit the radius user.

Data Account

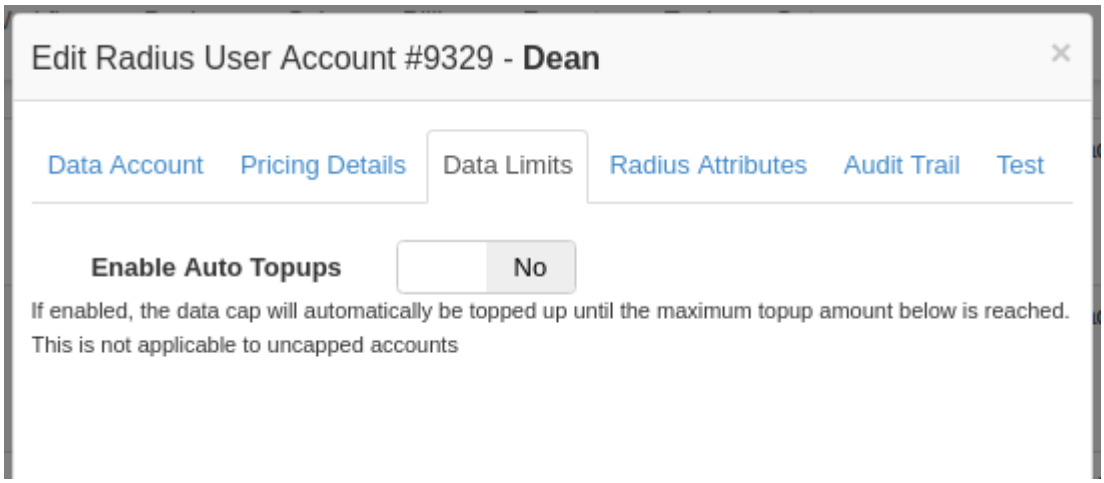


Pricing Details

Here you can set the monthly price and topup price if you do not want to use the default price.

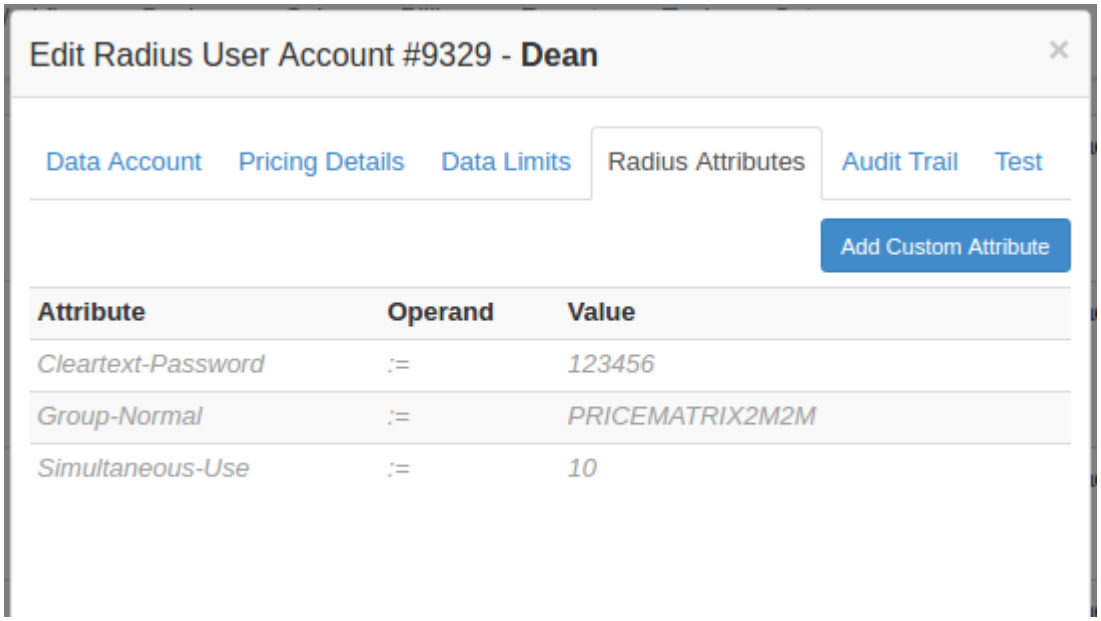


Data Limits



Radius Attributes

Here you can add the custom radius attributes to the radius user that you have set up. More on Custom Radius Attributes here.



Delete Radius User

Block

Radius users can be blocked. Which will cause authentication to be rejected. This setting can only be changed in the edit customer menu. Please refer to the customer guide for information on how to block and unblock a radius user.

Schedule Package Changes

1. /radius/package_changes
2. Click on +Add
3. Select the account for which the data package needs to be changed.
4. Select the new data package
5. Select an activation date. This is when the package change will become effective.
6. Click on Submit Package change.

Active Radius Sessions

- /radius/sessions
- Lists all the active radius sessions.
- Disconnect Old will disconnect all the radius users who have not been updated in the last 10 min.

Radius Server Status

Gives a quick overview of Radius Authentication Requests, Active Radius Sessions and Total Radius Session Traffic /radius/status

Restart the Radius Server.

Click on Restart Radius Server as show in the picture below