AXXESSMARINE

PEPWAVE
MAX HD2 LTEA

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SUMMARY

PEPWAVE MAX HD2 LTEA

Monitor SIM Card Status

To access the Pepwave MAX HD2 dashboard, type your Pepwave's gateway on your browser and fill **Login** / **Pass** to access the Pepwave's main page.

This shows your connections status like the carrier, state, signal level and 3G/LTE/LTE-A. You can drag and drop those connections to change the Internet Priority and to disable one or more of them.

You can also see the SSIDs of your access points, those that are password protected and those that are open.

In **WAN Connection Status**, click on **Details** and you can see important information about your VSAT/Cellular Connections.

Vsat Connection Details

Cellular Connection Details

In case of doubt, please do not change any information without consulting us.

Cellular Settings

Scrolling down this page, you can change some settings as you want and change when you change the SIM Card.

To do this, check in your Pepwave which slot is allocated the SIM card and select the current slot in "SIM Card".

You also can change or **chose a specific carrier** clicking on ⑦ and "here" and select the carrier in **Carrier Selection**. This process takes about 2 minutes to show all the carriers near the antennas. (see next page)

Each country and region have particular settings and must be applied as should, so when you have to change those settings, you have to change in this screen.

Cellular Settings

Carrier Selection	○ Auto ● Manual
LTE/3G	Auto ▾
Band Selection	Auto ▾
Data Roaming	☑ Any countries ▾
Authentication	Auto ▾
Operator Settings	○ Auto ● Custom
APN	internet
Username	web
Password	••••••••••
Confirm Password	••••••••••
SIM PIN (Optional)	_____ _____ (Confirm)
Bandwidth Allowance Monitor	☐ Enable

Carrier Selection ✖

The current data session will be disconnected during scanning. It will take about 1-2 minutes.   [Scan]

Carrier Name	Network
○ I TIM	3G LTE
○ vodafone IT	3G LTE
○ 222 50	3G LTE
○ I WIND	3G LTE
○ 3 ITA	3G LTE

Selecting improper carrier may lead to connection failure.

[OK] [Cancel]

All changes must be **saved** and **applied**.

Network Settings

In this session, you can create and manage your Virtual LANs to define some settings and controls within your network.

Go to 192.168.XX.Y, Click on **Network**, **Network Settings** and you can see your Virtual LANs.

All changes must be **saved** and **applied**.

Note: you can link a VLAN to a specific SSID. To do this, click on menu **AP**, click on **Wireless SSID** and select a desired VLAN.

All changes must be **saved** and **applied**.

Outbound Policy

You can define customized rules to manage the outbound traffic behavior. The rule Default will be applied to traffic that does not match with any higher precedence rules. To see your Outbound Policy rules, go to **Advanced**, **Outbound Policy** and you can see your setups.

This table allows you to fine tune how the outbound traffic should be distributed to the WAN connections.

Click the Add Rule button to add a new rule or the existent rule to make changes.

This field allows you to choose the WAN selection algorithm.

Weighted Balance - Traffic will be proportionally distributed among available WAN connections according to the specified load distribution weight;

Persistence - Traffic coming from the same machine will be persistently routed through the same WAN connection;

Enforced - Traffic will be routed through the specified connection regardless of the connection's health status;

Priority - Traffic will be routed through the healthy connection that has the highest priority;

Overflow - Traffic will be routed through the healthy WAN connection that has the highest priority and is not in full load. When this connection gets saturated, new sessions will be routed to the next healthy WAN connection that is not in full load;

Least Used - Traffic will be routed through the healthy WAN connection that is selected in the field Connection and has the most available downlink bandwidth;

Lowest Latency - Latency checking packets will be periodically sent to all selected healthy connections. Latency will then be determined by the response time of the second and third hops. New traffic will then be routed to a healthy connection with the lowest average latency during that detection period;

Fastest Response Time - Traffic will be duplicated and sent to all selected healthy connections. The connection with the earliest response will be used to send all further traffic from the session for the fastest possible response time. If there are any slower responses received from other connection afterwards, they will be discarded. As a result, this algorithm selects the most responsive connection on a per session basis.

This setting mean all the users in **SSID XYZ** Wireless with IP Address 192.ABC.XY.Z/24 will be enforced to use the priority as in this picture above.

The same happens with the rule "Owner", where the Algorithm is to respect the order of priority.

All changes must be saved and applied.

Access Rules

You can **create rules** to deny an internet group or a specifically person. To do this, go to **Advanced, Access Rules, Internal Network Firewall Rules** and click on **Add Rule**.

This rule example means when it is enabled, all users tagged as Crew into the Network with gateway is 192.168.XYZ.XYZ/24 will be denied to use internet.

Content Blocking

Choose applications to be blocked from LAN/PPTP/PepVPN peer clients' access, except for those on the Exempted User Groups or Exempted Subnets defined below.

You can block Audio/Video Streaming, Pornography, Database, Email, File Sharing and others applications into the Pepwave.

To do this, click on **Advanced**, **Content Blocking**, mark the applications and categories, mark or unmark the exempted users and/or groups.

To Block a specifically website, you should click on **Customized Domains**, fill with the domain. Examples: **facebook.* youtube.*** and click on [**+**].

All changes must be **saved** and **applied**.

Example: How to block Netflix to Crew Network:

Go to 10.0.8.1 **Network**, **Content Blocking** and in the session **Customized Domains**, type:

nflximg.*
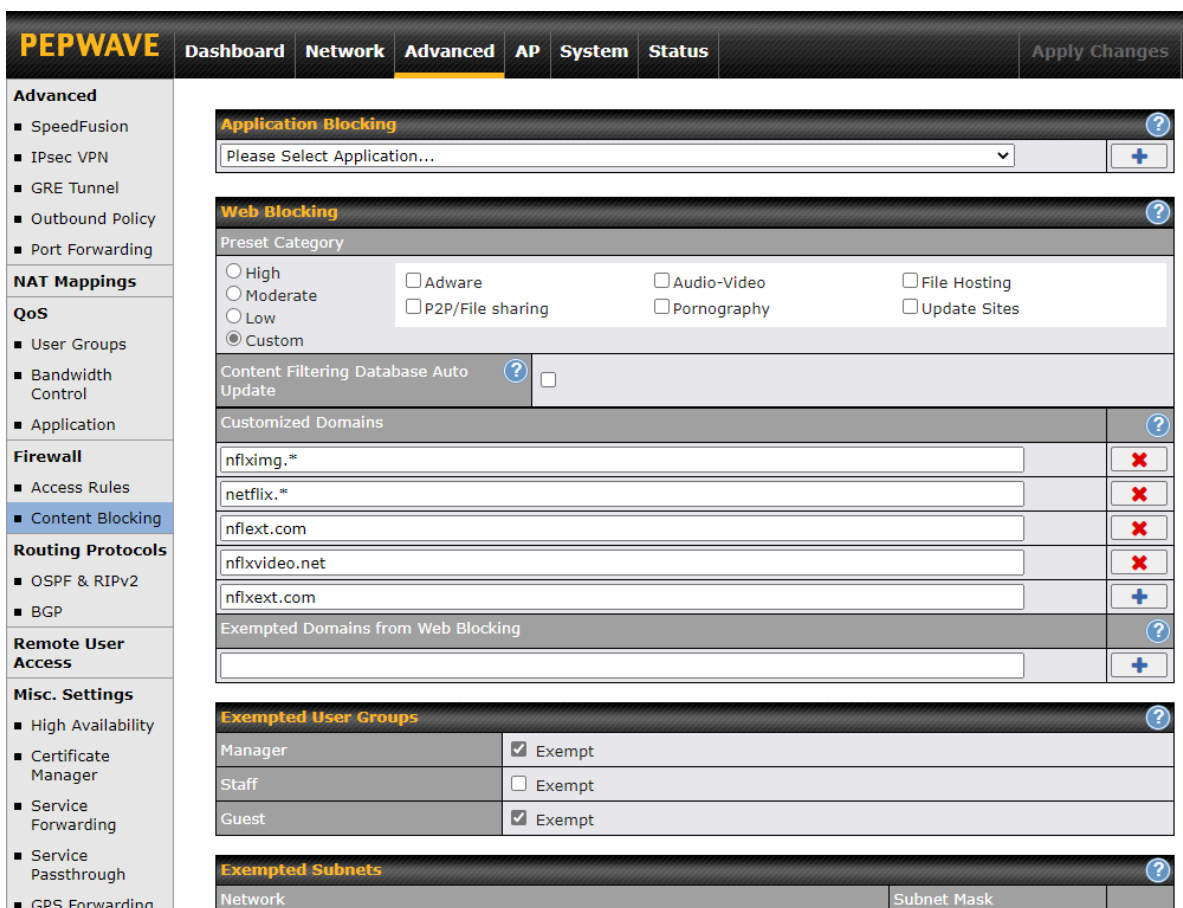
netflix.*

nflext.com

nflxvideo.net

nflxext.com

Mark **Manager** and **Guest** as **Exempted User Groups**, **Save** and click on **Apply Changes**.

Bandwidth Control

Using the Pepwave you can define how much minimum bandwidth will be reserved to each user group when a WAN connection is in full load or/and you can define a maximum download speed will be reserved for each WAN connection to Guest/Crew (owner no limit). To do this, you need to know your VLANs and IP Addresses and go to **Advanced**, **User Groups**, **Add** and in **Grouped** by mark Subnet and fill the IP Address from Owner/Crew/Guest and mark as Manager/Staff/Guest respectively. Example:

These settings mean the IP addresses 192.168.XYZ.Y/24 will follow the bandwidth rules as Staff (Normally Crew).

After to set all groups, click on **Bandwidth Control** and check the best option for you and change the settings according to your needs. Example:

All changes must be **saved** and **applied**.

Monitoring the network

In this session you can see the list of all clients accessing from LAN, Wi-Fi AP and assign a name to a client by clicking on the Name field of the client and inputting a name.

Go to **Status**, **Client List** and you can see all the users online and offline, you can monitor the real time speed of the different users on the networks and rename devices if necessary.

Usage Reports

Your Pepwave is able to show you all the internet usage in different times (Real time, Hourly, Daily and Monthly). You can see how much download each user made in these different times. To see these informations, go to **Status** and click on **Real time**, **Hourly**, **Daily** or **Monthly**.

Example: You click in **Daily** and see a usage graph:
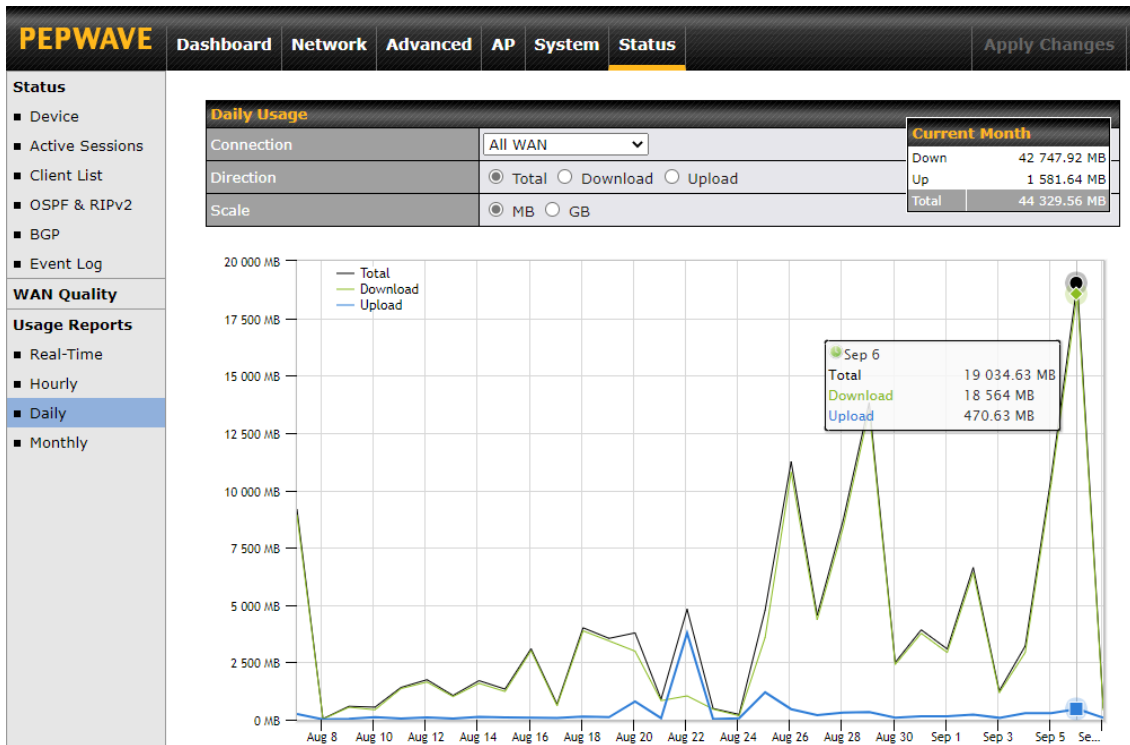
Scrolling down and you see the usage total per day (figure below left), clicking in a day, you can see details about this day (figure below right):

* If you want to make changes, we are here (Support Phone and Portal) to help if you have problems. But also if you want to change something, you can always ask us and we can do it remotely.