

29.2 Traceroute Test

The traceroute test tool traces the routing path to the destination through a particular Ethernet interface or a SpeedFusion™ connection. The traceroute test utility is located at **System > Tools > Traceroute**.

Tip

A system administrator can use the traceroute utility to analyze the connection path of a LAN/WAN connection.

29.3 Wake-on-LAN

Pepwane routers can send special “magic packets” to any client specified from the Web UI. To access this feature, navigate to **System > Tools > Wake-on-LAN**

Select a client from the drop-down list and click **Send** to send a “magic packet”

29.4 WAN Analysis

The WAN Analysis feature allows you to run a WAN to WAN speed test between 2 Peplink devices .

You can set a device up as a **Server** or a **Client**. One device must be set up as a server to run the speed tests and the server must have a public IP address.

WAN Performance Analysis

Check your point-to-point WAN performance with another peer



As a server
For the peer who has public IP addresses to accept connection.



As a client
For the peer to initiate connection.

The default port is 6000 and can be changed if required. The IP address of the WAN interface will be shown in the **WAN Connection Status** section.

WAN Performance Analysis

Check your point-to-point WAN performance with another peer

Server Settings

Status	☒ Listening (Control Port: 6000)
Control Port	6000

WAN Connection Status

1 WAN 1	☒ 10.22.1.182
2 WAN 2	☐ Disabled
3 WAN 3	☐ Disabled
4 WAN 4	☐ Disabled
5 WAN 5	☐ Disabled
Mobile Internet	☐ Disabled

The client side has a few more settings that can be changed. Make sure that the **Control Port** matches what's been entered on the server side. Select the WAN(s) that will be used for testing and enter the Servers WAN IP address. Once all of the options have been set, click the **Start Test** button.

WAN Performance Analysis

Check your point-to-point WAN performance with another peer

Client Settings

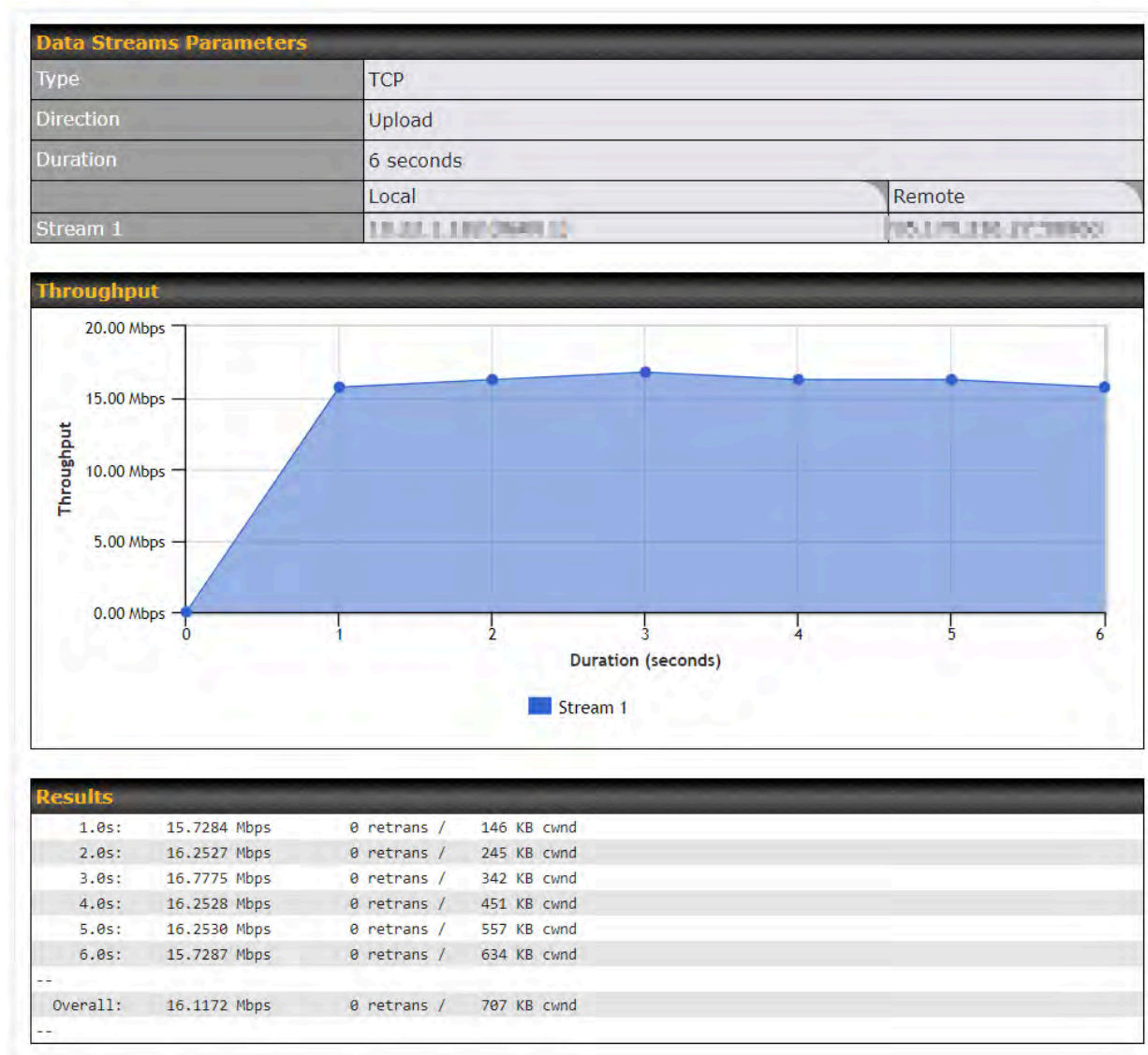
Control Port	6000	
Data Port	57280	- 57287
Type	☒ TCP ☐ UDP	
Direction	☒ Upload ☐ Download	
Duration	20	seconds (5 - 600)

Data Streams

Local WAN Connection	Remote IP Address
1. -- Not Used --	
2. -- Not Used --	
3. -- Not Used --	
4. -- Not Used --	
5. -- Not Used --	
6. -- Not Used --	
7. -- Not Used --	
8. -- Not Used --	

Start Test

The test output will show the **Data Streams Parameters**, the **Throughput** as a graph, and the **Results**.

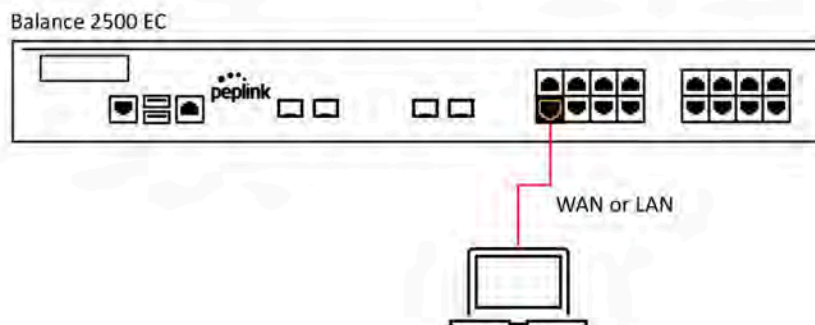


The test can be run again once it's complete by clicking the **Start** button or you can click **Close** and change the parameters for the test.

29.5 CLI (Command Line Support)

The CLI (Command Line Interface) can be accessed via SSH. You can use it to get device statistics and basic operations.

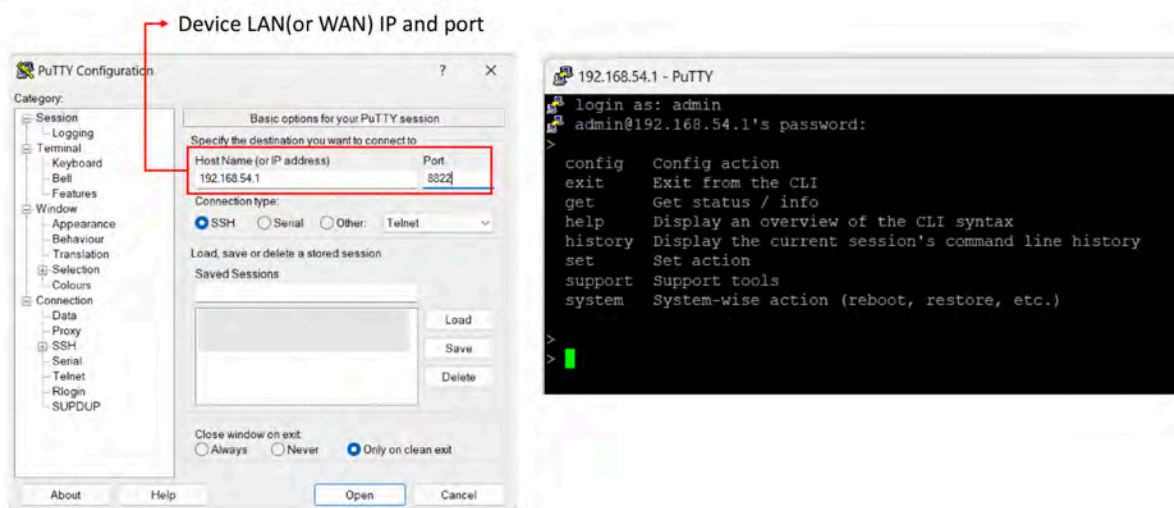
CLI Connect Method:



CLI (System > Admin Security):

peplink		Dashboard	SF Connect	Network	Advanced	AP	System	Status	Apply Changes
System									
- Admin Security - Firmware - Time - Schedule - Email Notification - Event Log - SNMP - SMS Control - InControl - Configuration - Feature Add-ons - Reboot									
Tools									
- Ping - Traceroute - Wake-on-LAN - WAN Analysis									
Logout									
Admin Settings									
Device Name	Balance-C5E4		hostname: balance-c5e4		This configuration is being managed by InControl.				
Admin User Name	admin								
Admin Password									
Confirm Admin Password									
Read-only User Name	user								
Read-only Password									
Confirm Read-only Password									
Web Session Timeout	4	Hours	0	Minutes					
Authentication Method	☒ Local Account ☐ RADIUS ☐ TACACS+								
CLI SSH & Console	☒ Enable								
CLI SSH Access	LAN / WAN								
CLI SSH Port	8822								
CLI SSH Access Public Key	Admin User: (Disabled) configure Read-only User: (Disabled) configure								
Security	HTTPS								
Web Admin Access	LAN / WAN								
Web Admin Port	443								

CLI:

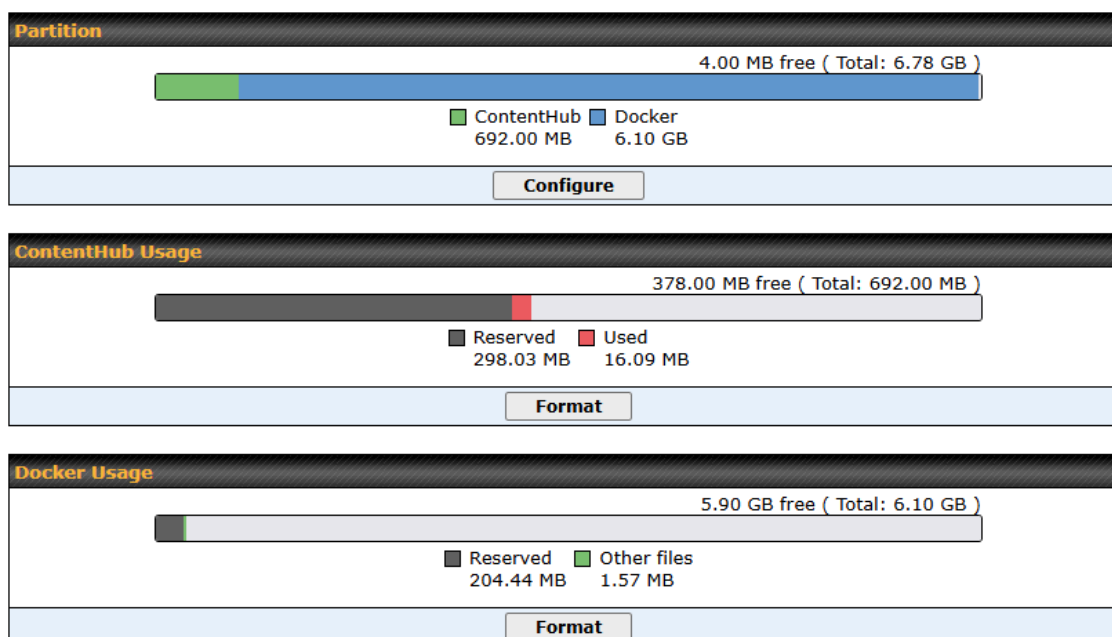


Visit [this link](#) for full command set.

29.6 Storage Manager

*This page is only available on device with Edge computing features. Kindly refer the link below to further check if the device is able to support edge computing.

<https://www.peplink.com/compare/routers/>



This page allow user to configure or format partition of internal storage for MediaFast / ContentHub / Docker Usage.

29.7 External Storage

(included in B One user manual -

<https://manual.peplink.com/peplink-b-one-series-user-manual/#4245>)

*This page is only available on device with “External Storage via USB Port”. Kindly refer the link below to further check if the device is able to support External Storage and enable edge computing (Docker).

<https://www.peplink.com/compare/routers/>

External Storage	Status	
SN: 4C530000031115109285 Model: SanDisk Ultra USB 3.0 Size: 114.56 GB Path: /mnt/ext/sda1	 In use	<button>Unmount</button>
Thu Oct 05 2023 16:08:36 GMT+0800 (Malaysia Time)		

This page allow user to manage their USB storage that connected to the device.

29.8 Package Manager

*This page is only available on device with Edge computing features. Kindly refer the link below to further check if the device is able to support edge computing.

<https://www.peplink.com/compare/routers/>

(Last Update: Tue May 23 04:02:36 UTC 2017)

Package List		Update All
Node.js Version: 6.9.2 (17178) Size: 8.99 MB Date: Fri Feb 24 07:45:28 UTC 2017		
Python Version: 2.7.12 (17178) Size: 20.29 MB Date: Fri Feb 24 07:45:28 UTC 2017		
Ruby Version: 2.3.3 (17178) Size: 31.44 MB Date: Fri Feb 24 07:45:30 UTC 2017		

This page allow users to manage supported framework that is needed for ContentHub. For more information on how to upload content to the Content Hub, kindly refer (MAX - Chapter 18, Balance - Chapter 12 > Edge Computing).

30 Status

30.1 Device

System information is located at **Status > Device**.

System Information	
Device Name	
Model	Pepwave MAX HD4 MBX
Product Code	MAX-HD4-MBX-LTEA-K
Hardware Revision	2
Serial Number	2936
Firmware	8.5.3 build 6126
SpeedFusion VPN Version	9.2.4
Modem Support Version	1026 (Modem Support List)
InControl Managed Configuration	AP, LAN
Host Name	mbx
Care Plan	PrimeCare(Venus) (Expiry date: Jan 01, 2026, GMT+8) (Refresh)
Uptime	5 minutes
System Time	Wed, Sep 3, 2025, 3:21:32 PM GMT+8
Diagnostic Report	Download
Remote Assistance	Connection will expire after 2025-09-05 07:00

MAC Address	
LAN	
WAN 1	
WAN 2	
WAN 3	
SpeedFusion NAT Mode	

System Information	
Device Name	This is the name specified in the Device Name field located at System > Admin Security .
Model	This shows the model name and number of this device.
Product Code	If your model uses a product code, it will appear here.

Hardware Revision	This shows the hardware version of this device.
Serial Number	This shows the serial number of this device.
Firmware	This shows the firmware version this device is currently running.
Care Plan	Display care plan status and expiry date. Note: Refresh button to manually refresh the PrimeCare license. User who has disabled InControl management may click [Refresh] option to check the PrimeCare license status after a renewal.
SpeedFusion VPN Version	This shows the current SpeedFusion VPN version.
InControl Managed Configuration	InControl Managed Configurations (firmware, VLAN, Captive Portal, etcetera)
Host Name	The host name assigned to the Peplink router appears here.
Uptime	This shows the length of time since the device has been rebooted.
System Time	This shows the current system time.
OpenVPN Client Profile	Link to download OpenVpn Client profile when this is enabled in Remote User Access
Diagnostic Report	The Download link is for exporting a diagnostic report file required for system investigation.
Remote Assistance	This option is to Turn on remote assistance with the time duration.

The second table shows the MAC address of each LAN/WAN interface connected. To view your device's End User License Agreement (EULA), click  [Legal](#).
status

30.2 GPS Data

GPX File	?	2019-03-22 (Today) ▾	Download
Diagnostic Report		2019-03-22 (Today)	
Remote Assistance		2019-03-21	
		2019-03-20	
		2019-03-19	
MAC Address		2019-03-18	
		2019-03-17	
LAN		2019-03-16	

GPS enabled models automatically store up to seven days of GPS location data in GPS eXchange format (GPX). To review this data using third-party applications, click **Status > Device** and then download your GPX file.

The Peplink GPS enabled devices export real-time location data in NMEA format through the LAN IP address at TCP port 60660. It is accessible from the LAN or over a SpeedFusion connection. To access the data via a virtual serial port, install a virtual serial port driver. Visit <http://www.peplink.com/index.php?view=faq&id=294> to download the driver.

30.3 Active Sessions

Information on active sessions can be found at **Status > Active Sessions > Overview**.

Overview Search		
Session data captured within one minute. Refresh		
Service	Inbound Sessions	Outbound Sessions
AIM/ICQ	0	1
Bittorrent	0	32
DNS	0	51
Flash	0	1
HTTPS	0	76
Jabber	0	5
MSN	0	11
NTP	0	4
QQ	0	1
Remote Desktop	0	3
SSH	0	12
SSL	0	64
XMPP	0	4
Yahoo	0	1
Interface	Inbound Sessions	Outbound Sessions
WAN 1	0	176
WAN 2	0	32
Wi-Fi WAN	0	51
Cellular 1	0	64
Cellular 2	0	0
USB	0	0
Top Clients		
Client IP Address	Total Sessions	
10.9.66.66	1069	
10.9.98.144	147	
10.9.2.18	63	
10.9.66.14	56	
10.9.2.26	33	

This screen displays the number of sessions initiated by each application. Click on each service listing for additional information. This screen also indicates the number of sessions initiated by each WAN port. In addition, you can see which clients are initiating the most sessions.

You can also perform a filtered search for specific sessions. You can filter by subnet, port, protocol, and interface. To perform a search, navigate to **Status > Active Sessions > Search**.

Overview

Search

Session data captured within one minute. [Refresh](#)

IP / Subnet	Source or Destination ▾	/ 255.255.255.255 (/32) ▾
Port	Source or Destination ▾	
Protocol / Service	TCP ▾	
Interface	☐ WAN 1 ☐ WAN 2 ☐ Wi-Fi WAN ☐ Cellular 1 ☐ Cellular 2 ☐ USB ☐ VPN	
Search		

Outbound

Protocol	Source IP	Destination IP	Service	Interface	Idle Time
No sessions					

Total searched results: 0

Inbound

Protocol	Source IP	Destination IP	Service	Interface	Idle Time
No sessions					

Total searched results: 0

Transit

Protocol	Source IP	Destination IP	Service	Interface	Idle Time
No sessions					

Total searched results: 0

This **Active Sessions** section displays the active inbound/outbound sessions of each WAN connection on the Peplink router. A filter is available to sort active session information. Enter a keyword in the field or check one of the WAN connection boxes for filtering.

30.4 Client List

The client list table is located at **Status > Client List**. It lists DHCP and online client IP addresses, names (retrieved from the DHCP reservation table or defined by users), current download and upload rate, and MAC address.

Clients can be imported into the DHCP reservation table by clicking the button on the right. You can update the record after import by going to **Network > LAN**.

Filter		☐ Online Clients Only ☐ DHCP Clients Only						
Client List								
IP Address ▲	Type	Name	Download (kbps)	Upload (kbps)	MAC Address	Network Name (SSID)	Signal (dBm)	
192.168.50.10		LAPTOP-████████	32	85	██████████	PEPWAVE_████	-57	
192.168.50.12		max-hd2-████	0	3	██████████			

Scale: ☒ kbps ☐ Mbps

If the PPTP server (see **Section 19.2**), SpeedFusion™ (see **Section 12.1**), or AP controller (see **Section 20**) is enabled, you may see the corresponding connection name listed in the **Name** field.

In the client list table, there is a “Ban Client” feature which is used to disconnect the Wi-Fi and Remote User Access clients by clicking the button on the right.

Filter		☐ Online Clients Only ☐ DHCP Clients Only						
Client List								
IP Address ▲	Type	Name	Download (kbps)	Upload (kbps)	MAC Address	Network Name (SSID)	Signal (dBm)	
192.168.50.10		LAPTOP-████████	279	14	██████████	PEPWAVE_████	-52	
192.168.50.12		max-hd2-████	0	0	██████████			

Scale: ☒ kbps ☐ Mbps

There is a blocklist on the same page after you banned the Wi-Fi or Remote User Access clients.

Filter		☐ Online Clients Only ☐ DHCP Clients Only						
Access restriction in action, some clients are currently banned.								
Client List								
IP Address ▲	Name	Download (kbps)	Upload (kbps)	MAC Address	Network Name (SSID)	Signal (dBm)		

You may also unblock the Wi-Fi or Remote User Access clients when the client devices need to reconnect the network by clicking  the button on the right.



30.5 UPnP / NAT-PMP

The table that shows the forwarded ports under UPnP and NAT-PMP protocols is located at **Status > UPnP/NAT-PMP**. This section appears only if you have enabled UPnP / NAT-PMP as mentioned in **Section 16.1.1**.

Forwarded Ports						
External	Internal	Internal Address	Type	Protocol	Description	
47453	3392	192.168.1.100	UPnP	UDP	Application 031	
35892	11265	192.168.1.50	NAT-PMP	TCP	NAT-PMP 58	
4500	3560	192.168.1.20	UPnP	TCP	Application 013	
5921	236	192.168.1.30	UPnP	TCP	Application 047	
22409	8943	192.168.1.70	NAT-PMP	UDP	NAT-PMP 97	
2388	27549	192.168.1.40	UPnP	TCP	Application 004	
						

Click  to delete a single UPnP / NAT-PMP record in its corresponding row. To delete all records, click **Delete All** on the right-hand side below the table.

Important Note

UPnP / NAT-PMP records will be deleted immediately after clicking the button  or **Delete All**, without the need to click **Save** or **Confirm**.

30.6 OSPF & RIPv2

The table shows status of OSPF and RIPv2.



Dashboard

Setup Wizard

Network

AP

System

Status

Apply Changes

Status

- Device
- Active Sessions
- Client List
- OSPF & RIPv2
- BGP

OSPF & RIPv2

Area	Remote Networks
0.0.0.0 PepVPN	10.0.2.0/24 10.0.3.0/24 192.168.63.0/24 10.0.100.0/24 192.168.100.0/24 192.168.162.0/24

30.7 BGP

The table shows status of BGP

peplink

Dashboard

Setup Wizard

Network

AP

System

Status

Apply Changes

Status

■ Device

■ Active Sessions

■ Client List

■ OSPF & RIPv2

■ BGP

BGP

Profile

Neighbor

No information

30.8 SpeedFusion VPN

Current SpeedFusion VPN status information is located at **Status > SpeedFusion VPN**.

Details about SpeedFusion VPN connection peers appears as below:

SpeedFusion VPN - Remote Peer			Show all profiles
Search			
Remote Peer	Profile	Information	
FSH-B987 (FusionHub_SG)	FusionHub_SG (1)	Client (192.168.100.0/24) connected to	>
FSH-B987 (FusionHub_SG)	FusionHub_SG (2 - Tunn...		>
SFC-SIN-H018 (SFC-SIN-H018)	SFH-SHARE-SIN		>

Click on the corresponding peer name to explore the WAN connection(s) status and subnet information of each VPN peer.

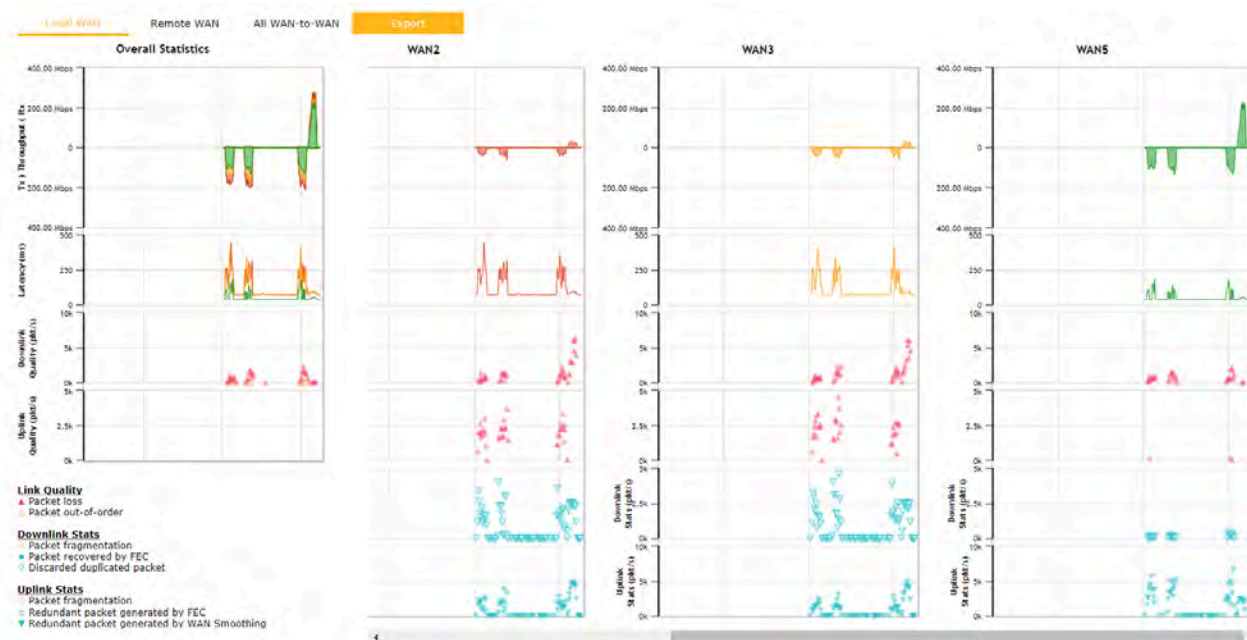
SpeedFusion VPN - Remote Peer

Show all profiles

Search

Remote Peer	Profile	Information
FSH-B987 (FusionHub_SG)	FusionHub_SG (1)	
WAN	Rx: < 1 kbps Tx: < 1 kbps	Loss rate: 0.0 pkt/s Latency: 11 ms
Cellular	Not available - WAN down	
Wi-Fi WAN	Not available - WAN disabled	
Total	Rx: < 1 kbps Tx: < 1 kbps	Loss rate: 0.0 pkt/s
FSH-B987 (FusionHub_SG)	FusionHub_SG (2 - Tunn...	
SFC-SIN-H018 (SFC-SIN-H018)	SFH-SHARE-SIN	

Click the  button for a SpeedFusion chart displaying real-time throughput, latency, and drop-rate information for each WAN connection.



When pressing the  button, the following menu will appear:

SpeedFusion VPN Details

Connection Information
More information

Profile	FusionHub_SG (1)				
Remote ID	FusionHub_SG				
Device Name					
Serial Number					

WAN Statistics

Remote Connections	☐ Show remote connections				
WAN Label	☒ WAN Name ☐ IP Address and Port				
WAN	Rx:	< 1 kbps	Tx:	< 1 kbps	Loss rate: 0.0 pkt/s Latency: 11 ms
Cellular	Not available - WAN down				
Wi-Fi WAN	Not available - WAN disabled				
Total	Rx:	< 1 kbps	Tx:	< 1 kbps	Loss rate: 0.0 pkt/s

SpeedFusion VPN Test Configuration

Type	☒ TCP ☐ UDP		Start
Streams	4		
Direction	☒ Upload ☐ Download		
Duration	20 seconds (5 - 600)		

SpeedFusion VPN Test Results

No information

The **connection information** shows the details of the selected SpeedFusion VPN profile, consisting of the Profile name, **Router ID**, **Router Name** and **Serial Number** of the remote router

Advanced features for the SpeedFusion VPN profile will also be shown when the **More Information** checkbox is selected.

The **WAN statistics** show information about the local and remote WAN connections (when **show Remote connections**) is selected.

The available details are **WAN Name**, **IP address** and **port** used for the Speedfusion connection. **Rx and Tx rates**, **Loss rate** and **Latency**.

Connections can be temporarily disabled by sliding the switch button next to a WAN connection to the left.

The wan-to-wan connection disabled by the switch is temporary and will be re-enabled after 15 minutes without any action.

This can be used when testing the SpeedFusion VPN's speed between two locations to see if there is interference or network congestion between certain WAN connections.

WAN Statistics	
Remote Connections	☒ Show remote connections
WAN Label	☒ WAN Name ☐ IP Address and Port
BT WAN Virgin Media	
Rx:	< 1 kbps
Tx:	< 1 kbps
Loss rate:	0.0 pkt/s
Latency:	17 ms
Not available - WAN disabled	

The SpeedFusion VPN test configuration allows us to configure and perform thorough tests. This is usually done after the initial installation of the routers and in case there are problems with aggregation.

SpeedFusion VPN Test Configuration	
Type	☒ TCP ☐ UDP
Streams	4
Direction	☒ Upload ☐ Download
Duration	20 seconds (5 - 600)
Start	

Press the Start button to perform throughput test according to the configured options.

If TCP is selected, 4 parallel streams will be generated to get the optimal results by default. This can be customized by selecting a different value of streams.

Using more streams will typically get better results if the latency of the tunnel is high.

SpeedFusion VPN Test Results			
1.0s:	16.2527 Mbps	0 retrans /	306 KB cwnd
2.0s:	20.4445 Mbps	0 retrans /	306 KB cwnd
3.0s:	18.3526 Mbps	0 retrans /	306 KB cwnd
4.0s:	17.8258 Mbps	0 retrans /	306 KB cwnd
5.0s:	17.3014 Mbps	0 retrans /	306 KB cwnd
6.0s:	14.1558 Mbps	0 retrans /	306 KB cwnd
7.0s:	18.3500 Mbps	0 retrans /	306 KB cwnd
8.0s:	15.7252 Mbps	0 retrans /	306 KB cwnd
9.0s:	17.2932 Mbps	0 retrans /	306 KB cwnd
10.0s:	20.4591 Mbps	0 retrans /	306 KB cwnd
11.0s:	11.5347 Mbps	0 retrans /	306 KB cwnd
12.0s:	15.2043 Mbps	0 retrans /	306 KB cwnd
13.0s:	12.0504 Mbps	0 retrans /	306 KB cwnd
14.0s:	13.1074 Mbps	0 retrans /	306 KB cwnd
15.0s:	10.4849 Mbps	0 retrans /	306 KB cwnd
16.0s:	12.5838 Mbps	0 retrans /	306 KB cwnd
17.0s:	15.2043 Mbps	0 retrans /	306 KB cwnd
18.0s:	16.2486 Mbps	0 retrans /	306 KB cwnd
19.0s:	18.8789 Mbps	0 retrans /	306 KB cwnd
20.0s:	18.3491 Mbps	0 retrans /	306 KB cwnd
--			
Stream 1:	3.9913 Mbps	0 retrans /	78 KB cwnd
Stream 2:	3.9728 Mbps	0 retrans /	74 KB cwnd
Stream 3:	3.9879 Mbps	0 retrans /	75 KB cwnd
Stream 4:	4.0044 Mbps	0 retrans /	79 KB cwnd
Overall:	15.9564 Mbps	0 retrans /	306 KB cwnd
--			
TEST DONE			

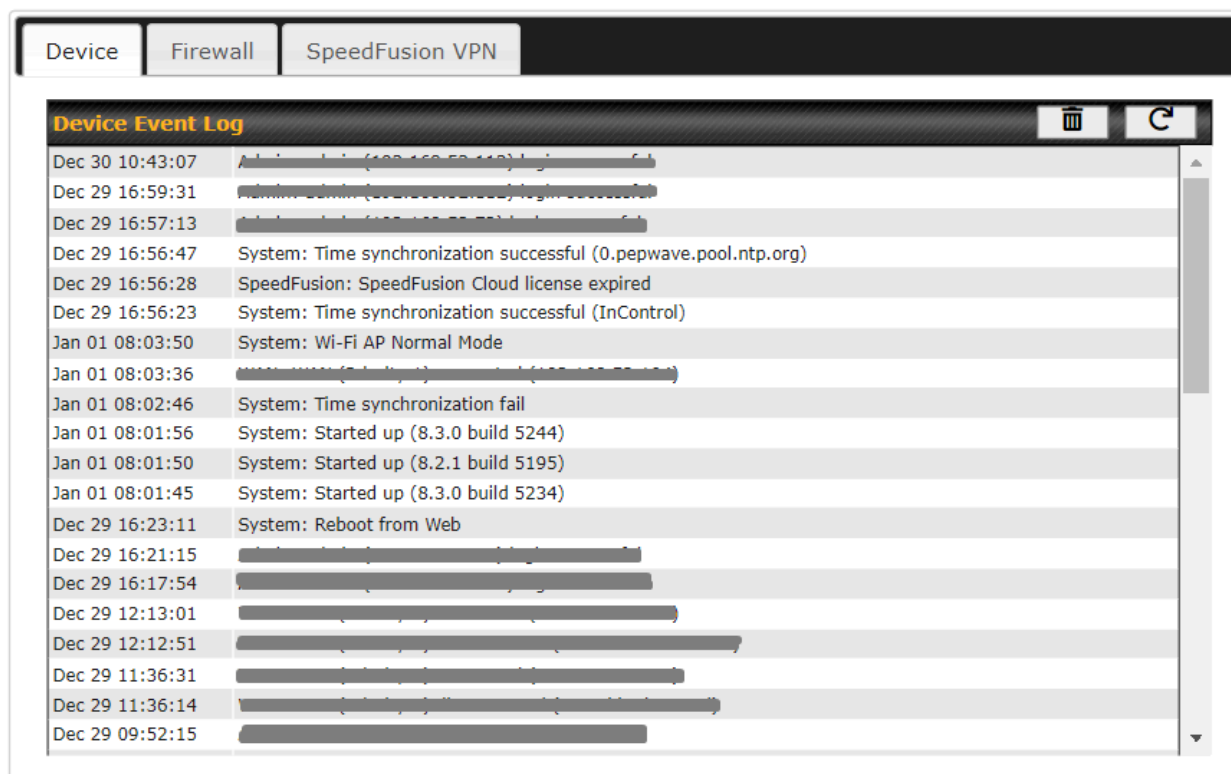
Peplink also published a whitepaper about Speedfusion which can be downloaded from the following url:

<http://download.peplink.com/resources/whitepaper-speedfusion-and-best-practices-2019.pdf>

30.9 Event Log

Event log information is located at **Status > Event Log**.

30.9.1 Device Event Log



The log section displays a list of events that has taken place on the Peplink router. Click the  to refresh log entries automatically. Click the  button to clear the log.

30.9.2 Firewall Event log

Device	Firewall	SpeedFusion VPN
Firewall Event Log		
Nov 15 02:48:07	[82937.373922] Firewall: Denied PROTO=TCP SPT=55887 DPT=32015 WINDOW=5840 RES=0x00 SYN URGP=0 MARK=0x1	
Nov 15 02:48:04	[82934.377179] Firewall: Denied PROTO=TCP SPT=55887 DPT=32015 WINDOW=5840 RES=0x00 SYN URGP=0 MARK=0x1	
Nov 15 02:47:07	[82877.028738] Firewall: Denied PROTO=TCP SPT=55873 DPT=32015 WINDOW=5840 RES=0x00 SYN URGP=0 MARK=0x1	
Nov 15 02:47:04	[82874.033025] Firewall: Denied PROTO=TCP SPT=55873 DPT=32015 WINDOW=5840 RES=0x00 SYN URGP=0 MARK=0x1	
Nov 15 02:46:07	[82817.043526] Firewall: Denied PROTO=TCP SPT=55843 DPT=32015 WINDOW=5840 RES=0x00 SYN URGP=0 MARK=0x1	
Nov 15 02:46:04	[82814.047141] Firewall: Denied PROTO=TCP SPT=55843 DPT=32015 WINDOW=5840 RES=0x00 SYN URGP=0 MARK=0x1	

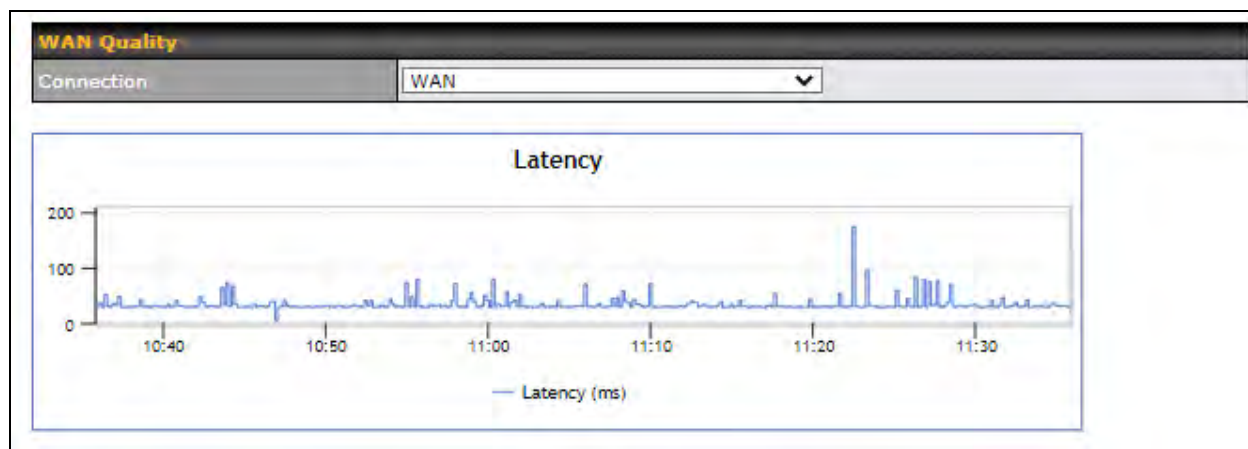
This section displays a list of events that have taken place within a firewall. Click the button and the log will be refreshed.

30.9.3 SpeedFusion VPN Event log

Device	Firewall	SpeedFusion VPN
SpeedFusion VPN Event Log		
Dec 29 16:57:17	SpeedFusion: SFC-SIN-H018 (-)	
Dec 29 16:56:43	SpeedFusion: SPH-SHARE-SIN failed to establish connection	
Dec 29 16:56:42	SpeedFusion:	
Dec 29 16:56:38	SpeedFusion: SFC-SIN-H018 (-) (link failure detected)	
Jan 01 08:04:00	SpeedFusion: FusionHub_SG (-)	
Jan 01 08:03:53	SpeedFusion: suite TLS_AES_256_GCM_SHA384	
Jan 01 08:03:51	SpeedFusion: (-)	
Jan 01 08:03:48	SpeedFusion: (-)	
Jan 01 08:03:43	SpeedFusion: TLS_AES_256_GCM_SHA384	

This section displays a list of events that have taken place within a SpeedFusion VPN connection. Click the button and the log will be refreshed.

31 WAN Quality



The **Status > WAN Quality** allow to show detailed information about each connected WAN connection.

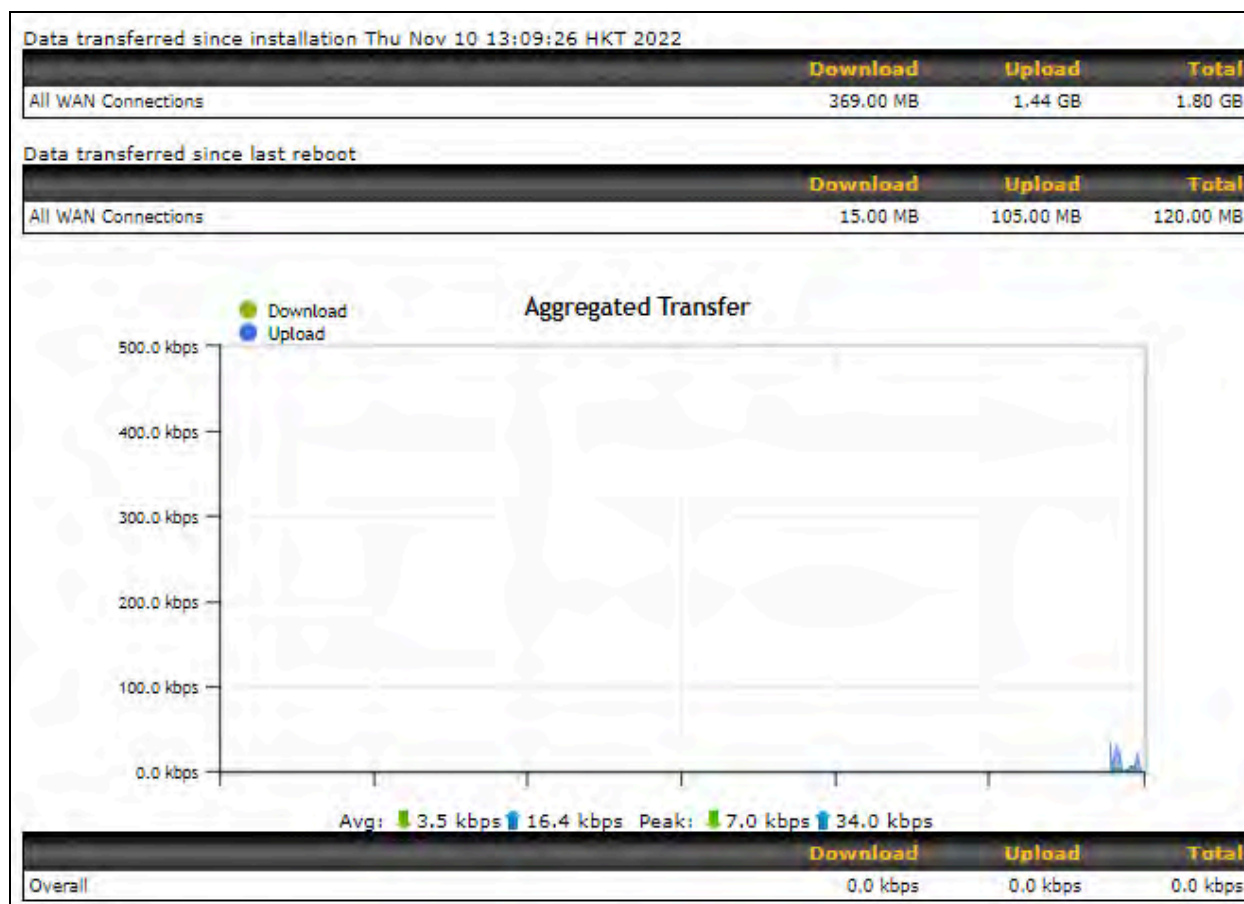
32 Usage Reports

This section shows bandwidth usage statistics and is located at **Status > Usage Reports**

Bandwidth usage at the LAN while the device is switched off (e.g., LAN bypass) is neither recorded nor shown.

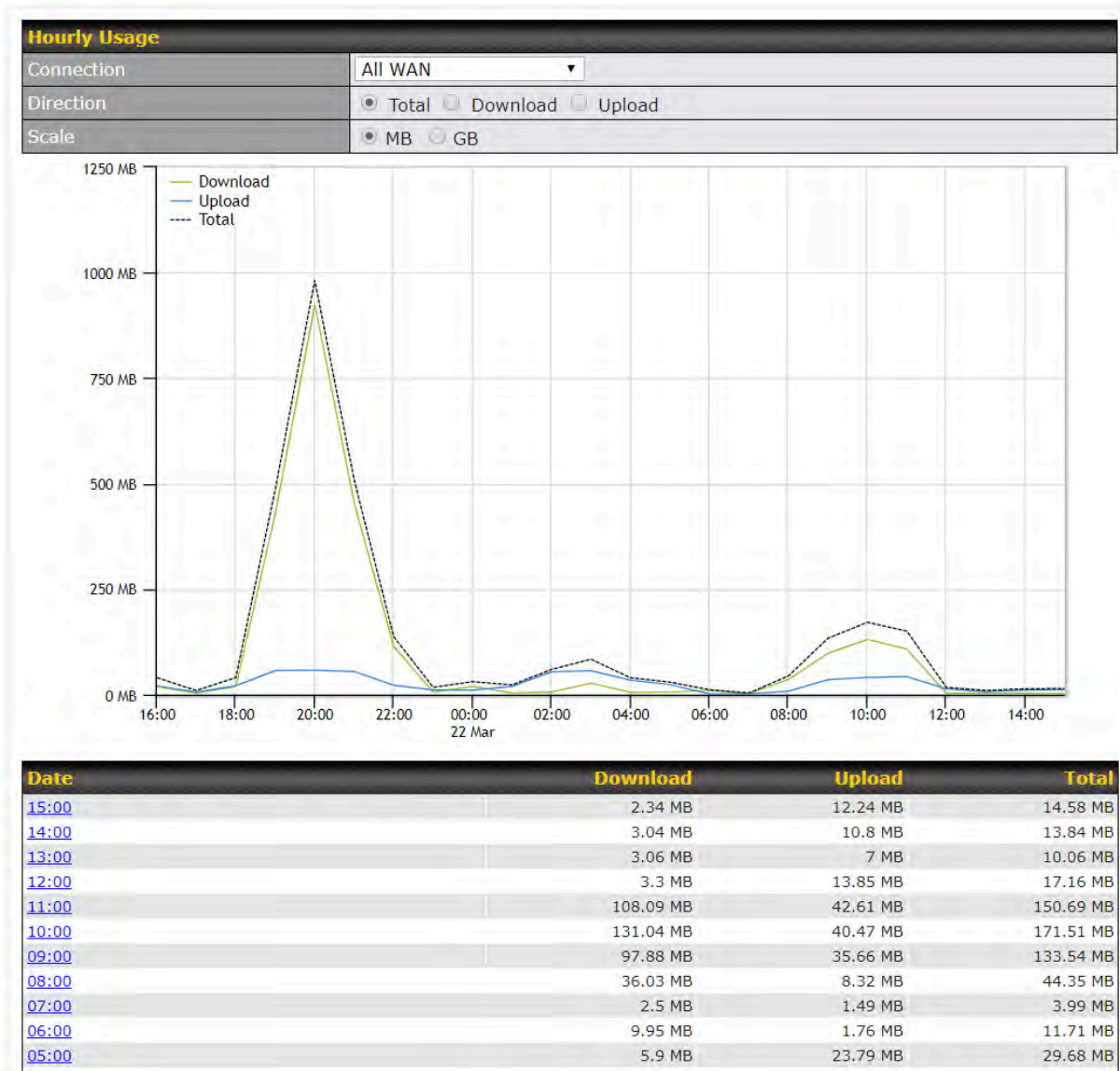
32.1 Real-Time

The **Data transferred since installation** table indicates how much network traffic has been processed by the device since the first bootup. The **Data transferred since last reboot** table indicates how much network traffic has been processed by the device since the last bootup.



32.2 Hourly

This page shows the hourly bandwidth usage for all WAN connections, with the option of viewing each individual connection. Select the desired connection to check from the drop-down menu.



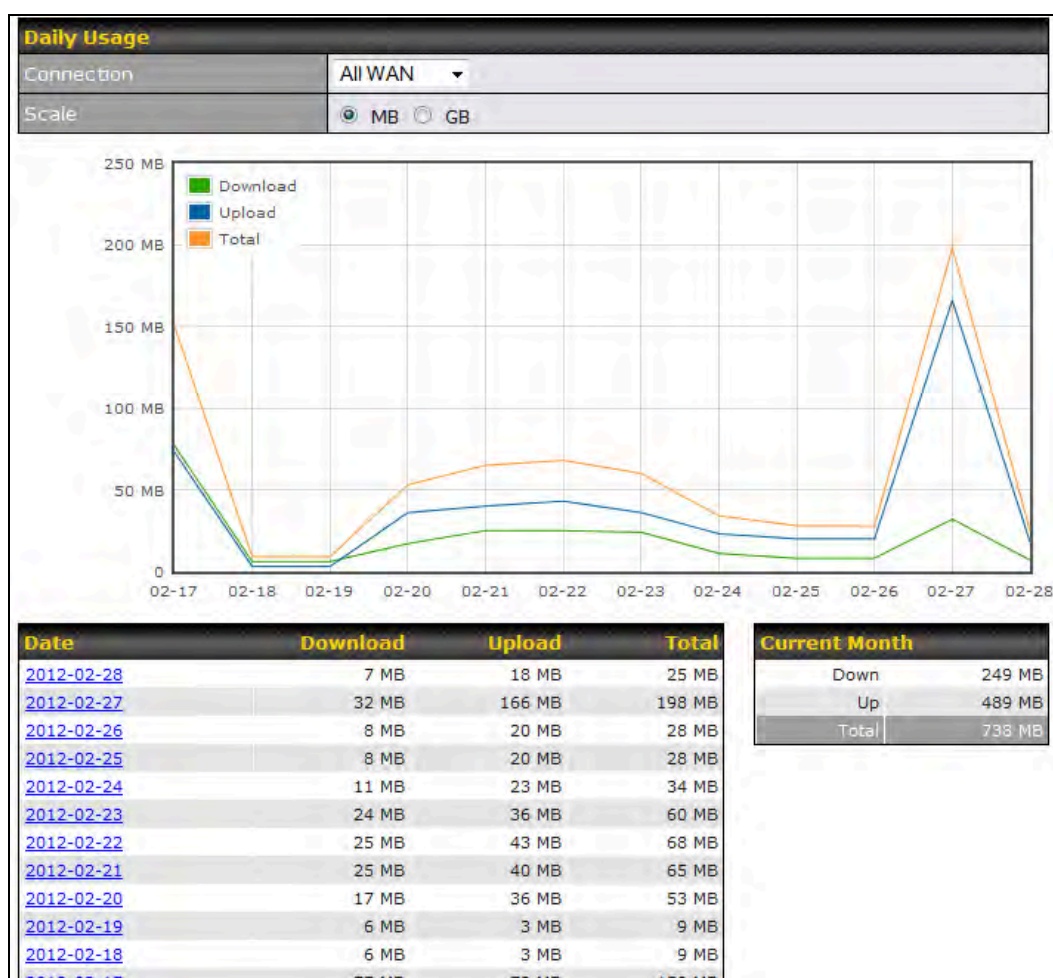
32.3 Daily

This page shows the daily bandwidth usage for all WAN connections, with the option of viewing

each individual connection.

Select the connection to check from the drop-down menu. If you have enabled the **Bandwidth Monitoring** feature, the **Current Billing Cycle** table for that WAN connection will be displayed.

Click on a date to view the client bandwidth usage of that specific date. This feature is not available if you have selected to view the bandwidth usage of only a particular WAN connection. The scale of the graph can be set to display megabytes (**MB**) or gigabytes (**GB**).



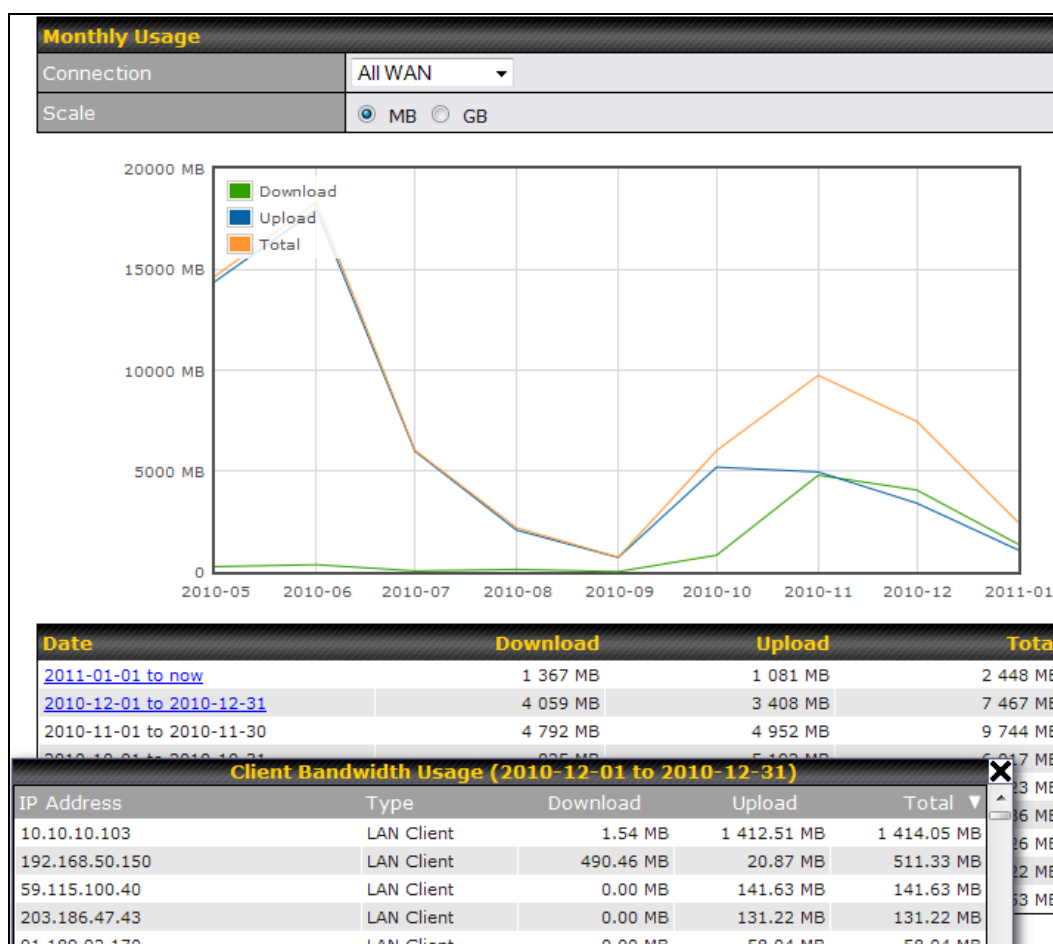
All WAN Daily Bandwidth Usage

32.4 Monthly

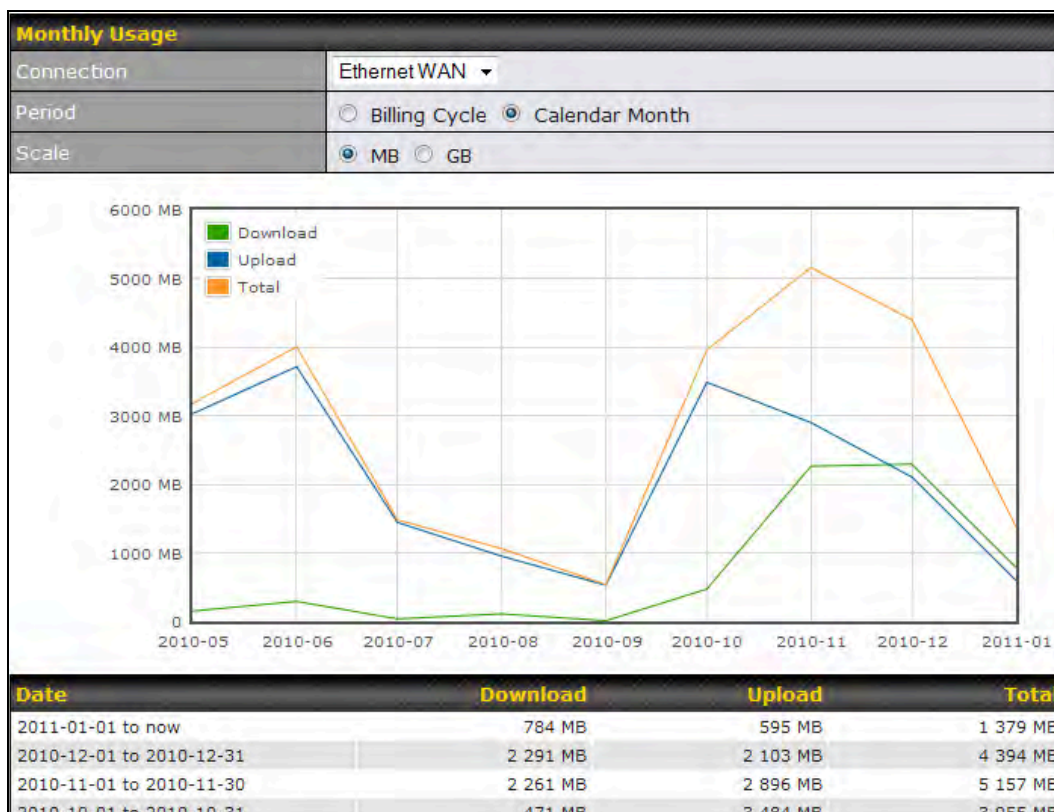
This page shows the monthly bandwidth usage for each WAN connection. If you have enabled the **Bandwidth Monitoring** feature, you can check the usage of each particular connection and

view the information by **Billing Cycle** or by **Calendar Month**.

Click the first two rows to view the client bandwidth usage in the last two months. This feature is not available if you have chosen to view the bandwidth of an individual WAN connection. The scale of the graph can be set to display megabytes (**MB**) or gigabytes (**GB**).



All WAN Monthly Bandwidth Usage



Ethernet WAN Monthly Bandwidth Usage

Tip

By default, the scale of data size is in **MB**. 1GB equals 1024MB.

Appendix A: Restoration of Factory Defaults

To restore the factory default settings on a Peplink router, follow the steps below:

1. Locate the reset button on the front or back panel of the Peplink router.
2. With a paperclip, press and keep the reset button pressed.

Hold for approximately 10 seconds for factory reset (Note: The LED status light shows in RED, until the status light off and release the button)

After the Peplink router finishes rebooting, the factory default settings will be restored.

Important Note

All previous configurations and bandwidth usage data will be lost after restoring factory default settings. Regular backup of configuration settings is strongly recommended.



Appendix B: Overview of ports used by Peplink SD-WAN routers and other Peplink services

Default Port Number	Usage	Service	Inbound/Outbound	Default Status
UDP 5246	Data flow	InControl	Outbound	Enabled
TCP 443	HTTPS service	InControl	Outbound	Enabled
TCP 5246	Optional, used when TCP 443 is not responding	InControl	Outbound	Enabled
TCP 5246	Remote Web Admin	InControl Virtual Appliance	Outbound	Enabled
TCP 4500	VPN Data (TCP Mode)	SpeedFusion VPN / SpeedFusion	Inbound / Outbound*	Disabled
TCP 32015	VPN handshake	SpeedFusion VPN / SpeedFusion	Inbound / Outbound*	Disabled
UDP 4500	VPN Data	SpeedFusion VPN / SpeedFusion	Inbound / Outbound*	Disabled
UDP 32015 ^o	VPN Data (alternative)	SpeedFusion VPN / SpeedFusion	Inbound / Outbound*	Disabled
TCP/UDP 4500+N-1 [^]	VPN Sub-Tunnels Data	SpeedFusion VPN / SpeedFusion	Inbound / Outbound*	Disabled
UDP 32015+N-1 [^]	VPN Sub-Tunnels Data (alternative)	SpeedFusion VPN / SpeedFusion	Inbound / Outbound*	Disabled
UDP 4500	VPN Data	IPsec	Inbound / Outbound*	Disabled
UDP 500	VPN initiation	IPsec	Inbound / Outbound*	Disabled
UDP 500	L2TP	Remote User Access	Inbound	Disabled
UDP 1701	L2TP	Remote User Access	Inbound	Disabled
UDP 4500	L2TP	Remote User Access	Inbound	Disabled
UDP 1194	OpenVPN	Remote User Access	Inbound	Disabled
IP 47	PPTP (GRE)	Remote User Access	Inbound	Disabled
TCP 2222	Remote Assistance Direct connection	Peplink Troubleshooting Assistance	Outbound	Enabled
TCP 80	HTTP traffic	Web Admin	Inbound	Enabled

		Interface access		
TCP 443	HTTPS traffic	Web Admin Interface access (secure)	Inbound	Enabled
TCP 8822	SSH	SSH	Inbound	Disabled
UDP 161	SNMP Get	SNMP monitoring	Inbound	Disabled
UDP 162	SNMP Trap	SNMP monitoring	Outbound	Disabled
TCP, UDP 1812	Radius Authentication	Radius	Outbound	Disabled
TCP, UDP 1813	Radius Accounting	Radius	Outbound	Disabled
UDP 123	Network Time Protocol	NTP	Inbound Outbound	Disabled Enabled
TCP 60660	Real-time location data in NMEA format	GPS	Inbound	Disabled

Disclaimer:

- By default, only TCP 32015 and UDP 4500 are needed for SpeedFusion VPN / SpeedFusion.
- Inbound / Outbound* - Inbound = For Server mode; Outbound = For Client mode
- UDP 32015° - If IPsec VPN or L2TP/IPsec RUA is enabled, the UDP 4500 is occupied, so SpeedFusion VPN / SpeedFusion will automatically switch to UPD 32015 as VPN data port .
- UDP 32015+N-1^ / TCP/UDP 4500+N-1^ - When using Sub-Tunnels, multiple ports are in use (1 for each Sub-Tunnel profile).
- The default UDP data ports used when using (N number of Sub-Tunnel profiles) are:
4500...4500+N-1, or (when port 4500 is in use by IPsec or L2TP/IPsec) 32015... 32015+N-1".

Appendix C: Declaration

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Professional Installation Instruction

This product must be installed only by personnel who have completed Peplink training and obtained Peplink certification. The general user shall not attempt to install or change the settings