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SUMMARY

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PEPWAVE MAX TRANSIT DUO LTEA

Monitor SIM Card Status

To access the Pepwave MAX Transit dashboard, type your **Pepwave IP address** on your browser and fill **user/password** to access the Pepwave's main page.

General							
AP Controller	WAN Connection Status						
	VSAT (Axxess Mari	Connected			Details		
	🚺 1A At8t 1B Bahamas	Connected to	AT&T		Details		
	12 2A At&t 2B Bahamas att O Obtaining IP Address 🛐 🗺						
	Priority 2						
	Disabled	Drag de	sired (Priority 2) connections h	HOLD			
	Wi-Fi WAN on 2.4	Stabled Disabled					
	WI-FI WAN on 5 GHz Disabled						
	LAN Interface						
	Router IP Address:						
	WI-FI AP				ON V Details		
	*	♠	<				
		•		۰			
	*						
	AP Controller Information	n			Status		
	Access Point: 17 (Online: 16 Connected Clients: 31	5)					

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.



WAN Connection Settings

WAN Connection Status

WAN Connection Settings	een ee		
WAN Connection Name		VSAT (Axxess Marine)	Default
Connection Method	?	Static IP 🗸	
Routing Mode	?	NAT	
IP Address		:	
Subnet Mask		255.255.255.252 (/30) 🗸	
Default Gateway			
DNS Servers		Use the following DNS server address(es) DNS Server 1: DNS Server 2:	
Independent from Backup WANs	?		
Standby State	?	Remain connected \bigcirc Disconnect	
Reply to ICMP Ping	?	● Yes ○ No	
Upload Bandwidth	?	1 Gbps 🗸	
Download Bandwidth	?	1 Gbps 🗸	

50 minutes

Vsat Connection Details

WAN Connection Sett	ings	
WAN Connection Status	s mananananan mananananan manananan mananan mananan mananan mananan mananan mananan mananan manana manana mana	
	SIM Card A	SIM Card B
IMSI		(No SIM Card Detected)
ICCID		-
MTN		-
MEID	HEX: DEC:	
IMEI		
Network Mode	Auto	
Carrier		
Country/Region	United States of America	
Network	LTE	
Band	LTE Band 2 (1900 MHz) RSSI: -60dBm SINR: -2.2	.2dB RSRP: -94dBm RSRQ: -15.0dB
IP Address		
Subnet Mask		
Default Gateway		
DNS Servers		
Uptime	32 minutes	

Cellular Connection Details In case of doubt, please do not change any information without consulting us. 4



Cellular Settings

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

Cellular Settings		2
SIM Card	 Both SIMs SIM A Only SIM B Only Alternate periocially between SIM A 	Only and SIM B Only
	SIM Card A	SIM Card B
Carrier Selection	Auto	Auto
LTE/3G	Auto 🗸	Auto 🗸
Band Selection	Auto 🗸	Auto 🗸
Data Roaming	Any countries 🗸	Any countries 🗸
Authentication	Auto 🗸	Auto 🗸
Operator Settings	◉ Auto ○ Custom	○ Auto ◉ Custom
APN	broadband	pda.newcomobile.com
Username		
Password		
Confirm Password		
SIM PIN (Optional)		
	(Confirm)	(Confirm)
Bandwidth Allowance Monitor ?	Enable	Enable

You can change or chose a specifically carrier clicking on and "here" and select the

carrier. This process takes about 2 minutes to show all the carriers near the antennas. 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.

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 as speed control, bandwidth control, etc.

PEPWAVE	Dashboard	Network	Advanced	AP Sys	stem	Status	•				Apply C	
LAN												
Network Settings	🚫 This co	nfiguration is	s being manag	ed by <u>InCo</u>	ontrol.							
 Port Settings 	LAN							VI	LAN	Network		WARDONNESS
 Captive Portal 	Untagged	LAN						No	one	1		
WAN	Managem	ent VLAN 🔕						1		(X
								2				×
								3				×
								98	3	1		×
								99)			X
	1							10	00	1		X
	-							10)1	1		X
	-							10)2	1		×
								10)4	1		×
	1							10)5			×
								10)6			×
								10)7			X
	-							10	000			X
						New L	AN					
LAN												×
TP Settings												
IP Address					255.	255.2	55.0 (/2	24) 🗸				
Network Sett	ings									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Name												
VLAN ID		10	00									
Inter-VLAN rou	ting											
DHCP Server												iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
DHCP Server		2 🕥	Enable									
DHCP Server Lo	ogging)									
ID Papeo	.,,,,,]_[2	EE 2E	E 255 0 //24		
Losso Timo			David			<u> </u>	Mine	2	55.25	5.255.0 (/24		
DNC Convorc		-	Days			, ation II.	, Millis					
WINC Convers			Assign Div	S server a	automa	atically	/					
POOTD			Assign wir	vs server								
BOOTP							l					
Extended DHCP Option			ption			la Evh	Valu and od C	ue	tion			
					1	NO EAU	Add	d	aon			
	1								Chable	10		=
DHCP Reservat	ion		ame		MAC	Addr	ess	.00	static	16		-
					00:	00:00	:00:00:	.00				T

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

PEPWAVE	Dashboard Network Adv	Ivanced AP System Status Apply C	hanges
АР			
Wireless SSID	SSID	×	
 Settings 	SSID Settings		
Controller Statu	SSID		
 Info 	Enable	Always on 🗸	
 Access Point 	VLAN	Crew (100)	
 Wireless SSID 	Broadcast SSID		
 Wireless Client 		(1)	100000000
 Nearby Device 	Security Settings	(3)	×
 Event Log 	Security Policy	(98)	×
Toolbox	Encryption	(100)	×
	Shared Key	2 (102)	×
		(104) (105)	×
	Management Frame Protection	(106)	×
		(100)	×
	Access Control Settings		×
	Restricted Mode	None	

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.

PEPWAVE	Dashboard Network	Advanced AP System	Status			Charige
Advanced SpeedFusion IPsec VPN	Outbound Policy Custom					
GRE Tunnel Outbound Policy	Rules (Drag and	drop rows by the left to chan	ge rule order)		_	(
Port Forwarding	Service	Algorithm	Source	Destination	Protocol / Port	
NAT Mappings		Priority WAN: VSAT / Axx	IP Network	Any	Any	*
User Groups		Persistence (Src) (Auto)	IP Network	Any	Any	×
Bandwidth Control		Weighted Balance 0:10:10:0:0	Any	Any	ТСР	×
Application		Priority WAN: VEAT / Avy	IP Network	Any	Any	×
irewall Access Rules		Priority WAN: 1A At&t 1B	IP Network	Any	Any	×
Content Blocking		Priority WAN: 1A AtSt 1B	IP Network 10.10.107.0/24	Any	Any	×
OSPF & RIPv2		Priority WAN: 14 AtSt 18	IP Address	Any	Any	×
BGP		Priority WAN: 24 At&t 28	IP Network	Any	Any	×
temote User Access		Priority WAN: 2A At&t 2B	IP Network	Any	Any	×
lisc. Settings	Default		-	(Auto)		
High Availability			Add Rule			

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.



PEPWAVE	Dashboard Network Advance	ced AP System Status	Apply Chan
Advanced SpeedFusion IPsec VPN GRE Tunnel Outbound Policy	Outbound Policy Custom Edit Custom Rule		
Port Forwarding NAT Mappings	Service Name Enable		
User Groups Bandwidth Control	Source Destination (?	IP Network Mask: 255.255.255.0 (/24) Any	
Application Firewall	Algorithm (?	Priority	
Access Rules Content Blocking Routing Protocols OSPF & RIPv2 BGP	Priority Order (?	Highest Priority Not In Use WAN: 2A WAN: 1A WAN: VSAT WAN: Wi-Fi WAN: Wi-Fi Lowest Priority	
Remote User Access	When No Connections are (? Available	Drop the Traffic	
Hisc. Settings High Availability	Terminate Sessions on Connection Recovery	Enable	

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.

PEPWAVE	Dashboard Network Advance	ed AP System Status	
Advanced			
 SpeedFusion 	Outbound Policy		2
IPsec VPN	Custom		
 GRE Tunnel 			
Outbound Policy	Edit Custom Rule		
Port Forwarding			
NAT Mappings	Service Name	Crew Wireless	
QoS	Enable		× ×
User Groups	Source	IP Network	~ ×
 Bandwidth 	Destination (?)	Any 🗸	
Control	Protocol	Any V	
 Application 	Algorithm	Priority	×
Firewall			
 Access Rules 	Priority Order	Not In Use	X
Content Blocking		WAN: 2A	
Routing Protocols		WAN: VSAT	
OSPF & RIPv2		WAN: Wi-Fi	×
BGP		WAN: Wi-Fi	
Remote User		Lowest Phoney	
Access	When No Connections are (?) Available	Drop the Traffic	×
Misc. Settings High Availability 	Terminate Sessions on (?) Connection Recovery	Enable	

This setting mean all the users in SSID Crew Wireless with IP Address 000.000.000.000/24 will be enforced to use the priority as in this picture above.

PEPWAVE 0	ashboard Network Adva	nced AP System Status		
Advanced SpeedFusion IPsec VPN GRE Tunnel	Outbound Policy Custom			() () ()
Outbound Policy	Rules (Drag and drop rov	rs by the left to change rule ord	ler) Pro	() tocol
Port Forwarding	Edit Custom Rule			×
NAT Mappings				×
User Groups	Enable	Owner 🖸		×
 Bandwidth Control 	Source	IP Network	Mask: 255.255.255.0 (/24)	× ×
 Application 	Destination	🗿 Any 💌		-
Firewall	Protocol	Any 🕶 🗲 :: Protocol Selection		
Access Rules	Algorithm	2 Priority 🗸		×
Content Blocking Routing Protocols OSPF & RIPv2 BGP	Priority Order (Highest Priority WAN: 1A WAN: 2A WAN: VSAT WAN: WI-FI	Not In Use	×
Remote User Access		WAN: Wi-Fi Lowest Priority		×
Misc. Settings High Availability	When No Connections are (Available	Fall-through to Next Rule		
 Certificate Manager 	Terminate Sessions on (Connection Recovery	3 🗆 Enable		



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

All changes must be saved and applied.

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 192.168.100.1 Advanced, 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.

PEPWAVE	Dashboard Network Advanced AP System Status	Apply Changes
Advanced		
 SpeedFusion 	Application Blocking	
IPsec VPN	Please Select Application 🗸	+
 GRE Tunnel 		
 Outbound Policy 	Web Blocking	(2)
Port Forwarding	Preset Category	
NAT Mappings	O High Adware Audio-Video File Hosting	
QoS	O Low □ P2P/File sharing □ Pornography □ Update Sites	
 User Groups 	Custom	
 Bandwidth Control 	Content Filtering Database Auto 🕜 🗌 Update	
 Application 	Customized Domains	?
Firewall	nflximg.*	×
Access Rules	netflix.*	×
 Content Blocking 	nflext.com	
Routing Protocols		
OSPF & RIPv2		
 BGP 	Initext.com	
Remote User Access		+
Misc. Settings		
 High Availability 	Exempted User Groups	(?)
 Certificate 	Manager Exempt	
Manager	Staff Exempt	
 Service Forwarding 	Guest Exempt	



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:

	Dashboard	Network	Advanced	AP	System	Status			Apply Ch	
Advanced										
SpeedFusion	QoS Clie	nts						Use	Group	2
IPsec VPN								Gues	t	×
 GRE Tunnel 								Staff		×
 Outbound Policy 								Gues	t	×
Port Forwarding								Mana	iger	×
NAT Mappings	All DHCP	reservation	dients					Mana	ager	
QoS	Everyone							Mana	ager	
 User Groups 						Add				
 Bandwidth Control 										
 Application 										
PEPWAVE	Dashboard	Network	Advanced	АР	System	Status			pply Cha	nges
Advanced										-
Advanced SpeedFusion	Add / Ed	lit User Gro	oup						٤	3 🔊
Advanced SpeedFusion IPsec VPN	Add / Ed	lit User Gre	oup						2	3
Advanced SpeedFusion IPsec VPN GRE Tunnel	Add / Ed	lit User Gro	oup (?) [S	ubnet	~		Mask: 255.255	.254.0 (/23)	•	3
Advanced SpeedFusion IPsec VPN GRE Tunnel Outbound Policy	Add / Ed	lit User Gro Py	oup ? S	ubnet	~		Mask: 255.255	.254.0 (/23)	~	
Advanced SpeedFusion IPsec VPN GRE Tunnel Outbound Policy Port Forwarding	Add / Ed Client Grouped b Group	lit User Gro Py	oup ? S	ubnet taff	~		Mask: 255.255	.254.0 (/23)	•	
Advanced SpeedFusion IPsec VPN GRE Tunnel Outbound Policy Port Forwarding NAT Mappings	Add / Ed Client Grouped b Group	lit User Gr	oup ? S ? S	ubnet taff	<u>v</u>		Mask: 255.255	.254.0 (/23)	3 V Cancel	
Advanced SpeedFusion IPsec VPN GRE Tunnel Outbound Policy Port Forwarding NAT Mappings QoS	Add / Ed Client Grouped b Group	lit User Gri	oup ? S ? S	ubnet taff	v		Mask: 255.255	.254.0 (/23) Save	▼ Cancel	

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:

PEPWAVE	Dashboard	Network	Advanced	АР	System	Status				Apply Changes
Advanced										
 SpeedFusion 	Group Ba	ndwidth Re	eservation							?
IPsec VPN	Enable									
 GRE Tunnel 										
 Outbound Policy 	Individu	al Bandwidt	h Limit		hhhhhhh					····· ?
Port Forwarding	Enable			V						
NAT Mappings	User Band	lwidth Limit			Downlo	ad	Upload			
QoS				Mana Staff	ger: Unlimit	ed Mbns 🗸	Unlimited	Mhns 🗸	(0: Unlimite	d)
 User Groups 				Guest	t: 5	Mbps V	5	Mbps V	(0: Unlimite	d)
 Bandwidth Control 						Save)			
 Application 							1			

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.

PEPWAVE	Dashboard Network Adva	nced AP System SI	tatus		Apply Changes
Status					
 Device 	Filter	Online Clients On	ily		
 Active Sessions 		DHCP Clients On	y .		
 Client List 	Client List				2
 OSPF & RIPv2 	IP Address Name	Download	Upload MAC Address	Network Name	Signal Import
 BGP 		(kbps) 🔻	(kbps)	(SSID)	(dBm)
UPnP / NAT-PMP		221	11		
Event Log		0	0		-31
WAN Quality	•	0	0		-56 S
Usage Reports	#	0	0		•
Real-Time	#	0	0		•
 Hourly 	#	0	0		•
 Daily 	#	0	0		•
 Monthly 	#	0	0		•
	8	0	0		•
	8	0	0		•
		0	0		•
	<i>N</i>	0	0		•
		0	0		ad72
	×	0	0		· •
	*	0	0		
	•	0	0		-44
	1	0	0		
	#	0	0		•
	2	0	0		•
	÷	0	0		•
	*	0	0		•
	<i>st</i>	0	0		

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):

Date	Download	Upload	Total	2020-08-20						2
2020-08-20	2.47 GB	2.02 GB	4.5 G8							
2020-08-19	9.43 GB	4.18 GB	13.61 GB	Client Lisage	Pen//PN Lisage					
2020-08-18	5.17 GB	0.94 GB	6.11 GB	crient usage	reparts usage					_
2020-08-17	16.91 GB	1.9 GB	18.81 GB							
2020-08-16	13.86 GB	3.68 GB	17.54 G8	IP Address	MAC	Type	Download	Upload	Total	
2020-08-15	10.62 GB	2.8 GB	13.41 GB			LAN Client	457 KB	640 KB	1.07 MB	
2020-08-14	8.16 GB	15.72 GB	23.09 GB			LAN Client	2.73 MB	5.80 MB	8.53 MB	
2020-08-13	13.63 GB	1.9 GB	15.53 GB			LAN Client	1.11 MB	751 KB	1.85 MB	
2020-08-12	10.32 GB	1.93 GB	12.25 GB			LAN Client	2.00 KB	2.00 KB	4.00 KB	
2020-08-11	13.94 G8	2.92 GB	16.86 GB			LAN Client	2.00 KB	2.00 KB	4.00 KB	
2020-08-10	12.57 GB	1.79 GB	14.37 GB			LAN Client	3.00 KB	2.00 KB	5.00 KB	
2020-08-09	15.14 GB	7.18 G8	22.31 GB			LAN Client	3.00 KB	3.00 KB	6.00 KB	
2020-08-08	11.01 G8	1.4 GB	12.41 GB			LAN Client	3.00 KB	3.00 KB	6.00 KB	
2020-08-07	11.1 G8	1.22 GB	12.32 GB			LAN Client	1.00 KB	0.00 KB	1.00 KB	
2020-08-06	8.4 GB	1.82 GB	10.22 GB			LAN Client	2.00 KB	2.00 KB	4.00 KB	
2020-08-05	14.92 GB	2.96 GB	17.88 GB			LAN Client	3.00 KB	3.00 KB	6.00 KB	
2020-08-04	26.45 GB	3.42 GB	29.86 GB			LAN Client	3.00 KB	4.00 KB	7.00 KB	
2020-08-03	8.41 GB	1.37 GB	9.78 GB			LAN Client	2.00 KB	2.00 KB	4.00 KB	
2020-08-02	17.76 GB	4.41 GB	22.17 GB			LAN Client	3.00 KB	4.00 KB	7.00 KB	
2020-08-01	36.13 GB	2.01 GB	38.14 GB			LAN Client	4.00 KB	4.00 KB	8.00 KB	
2020-07-31	6.98 GB	0.69 GB	7.67 GB			LAN Client	4.00 KB	4.00 KB	8.00 KB	
2020-07-30	30.48 GB	1.79 GB	32.28 GB			LAN Client	3.00 KB	3.00 KB	6.00 KB	
2020-07-29	12.32 GB	1.36 GB	13.68 GB			LAN Client	1.00 KB	0.00 KB	1.00 KB	
2020-07-28	11.88 GB	1.12 GB	13.01 GB			LAN Client	11.0 KB	13.0 KB	24.0 KB	
2020-07-27	14.05 GB	2.56 GB	16.61 GB			LAN Client	14.2 MB	1.41 MB	15.6 MB	
2020-07-26	22.93 GB	2.33 GB	25.27 GB			LAN Client	449 KB	453 KB	902 KB	
2020-07-25	13.77 GB	1.11 GB	14.00 GB			LAN Client	289 KB	126 KB	415 KB	
2020-07-24	7.64 GB	0.7 GB	8.33 GB			LAN Client	971 KB	375 KB	1.31 MB	
2020-07-23	8.02 GB	1.45 GB	9.47 GB			LAN Client	30.0 KB	6.00 KB	36.0 KB	
2020-07-22	10.52 GB	1.42 GB	11.94 GB			LAN Client	512 KB	166 KB	678 KB	
2020-07-21	12.4 GB	1.77 GB	14.17 GB			LAN Client	393 KB	156 KB	549 KB	
2020-07-20	10.64 GB	2.82 GB	13.46 GB			LAN Client	193 KB	124 KB	317 KB	
and an ad	1000		20100.00			LAN Client	534 KB	752 KB	1.26 MB	
						LAN Client	10.7 MB	8.10 MB	18.8 MB	
						LAN Client	55.3 MB	2.17 MB	57.5 MB	
						LAN Client	7.00 KB	6.00 KB	13.0 KB	
						LAN Client	10.0 KB	21.0 ×8	31.0 KB	

* If you want to make changes, we are here (Support Phone and <u>Portal</u>) 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.

LAN Client

LAN Client

45.4 MB

96.8 MB

8.45 MB

8.75 MB

53.8 MB

106 MB

