

# NF-EN6200 UAM Radius Integration with ANTMEDIA

Document Contains UAM-NAS Configuration - NetFox Firewall End User Login Flow

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Disclaimer

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## UAM Hotspot (NAS) Integration Manual

This document talks about the configuration to be done in NetFox Next Generation Firewall Product to co-work with Antamedia AAA Radius Server.

#### Please note:

- 1. The integration is available for NetFox NF Series of Next Generation Firewall (NGFW) only
- 2. Support on NF-10 Series of SDWAN Routers not available
- 3. NAS add on license is required in NF-Series to do the necessary configuration for the Radius integration
- 4. NF Series is a NGFW product built with Routing, DPI Firewall, Web Security and VPN Modules along with NAS (UAM) integration add on module
- 5. NF Series has multiple models based on concurrent device license support. Based on the concurrent user's requirement the choice of the model will vary. Talk to NetFox Presales experts for choices.

#### **NF Series – Basic Configuration**

Pre-requisite:

- 1. Laptop / Desktop with any standard browser (IE/Chorme/Firefox/Safari)
- 2. Ethernet cable (Preferably CAT-6 or above)

#### Steps:

- 1. Unpack the NetFox NF Series box (Based on the choice of model either it will be with a power adapter or built in Power Supply Unit (PSU).
- 2. Power on the NGFW, you can able to hear single beep on initial power on and after 40 secs a double beep. This indicates the NGFW is booted and ready to do initial configuration
- 3. For example, if you have product with 4 Ethernet ports named as Port1 Port4 then connect the Laptop / Desktop to Port-3 using the CAT-6 cable
- 4. Ensure your Laptop / Desktop Ethernet Adaptor is set as "Obtain IP Automatically"
- 5. Open a browser and type <u>https://192.168.100.1:4433</u>
- 6. https server certificate error will occur as it has as self-signed certificate, click on "Advanced" and then click on "Accept the Risk and Continue".
- 7. Login page will open and request for username & password
- 8. Type username as "admin" & Password as "admin99"
- 9. Product Dashboard screen will open with all the required details.



	netfox intelligent networks		Powered by Ttacitine
Login		NF-Q-360	Mon 10 Apr 2023 11:40:57 IST
	Username		
	<b>A</b>		
	Password		
	LOGIN		
	WARPINICIT This computer system is for authorized users only. All activity is logged and regularly monitored by systems personel. Unauthorized or improper use of this system may result in civil and criminal pecalities and administrative or disciplinary actions, as appropriate. Avoin using this system consents to these terms.		



#### **Configuring WAN (Internet Service Provider – Links)**

- 1. Click on "Configuration" tab which is next to "Dashboard". This will open up all the available configuration in the product
- 2. In "Configurations" click on "Network Settings" choose "WAN-1"
- 3. Choose the WAN Connection Type as per the ISP link details either as PPPoE, DHCP or Static
- 4. Do the required configuration as per the ISP link details
- 5. Incase if you choose DHCP or in Static IP with local IP or NAT-ed IP address then
- 6. In the "Link Properties" on the "Link Failure Detection" option choose "Ping Remote IP" and configure Remote IP as "8.8.8.8"





- 7. With this the configuration for the "WAN-1" is done, click on the "Save" and "Restart Service"
- 8. Connect the ISP link Ethernet cable to "PORT-1" of the NF NGFW appliance
- 9. Click on "Dashboard" to check whether the ISP link came up and working in the firewall



			net fox intelligent networks				P	weret by Ttacitine
Open All   Close All	ation status kepi	Administration	NF	-EN6200			DEM	admin :
Dashboard	WAN Data Transfer	8.0	System Resources	8	WAN B	andwidth		
System initio     CPU Dashboard     CPU Dashboard     Memory Dashboard     Task Manager     Task Manager     Task Menory Usage     CPU Core Usage     PVA Port Status     PVA Port Status     PVA Fort Status     PVA Fort Status	Data BWB CMB CMB CMB CMB CMB CMB CMB CMB CMB CM	- 9- 44.	100 - 80 - 20 - 0 - 	- cpu-core - mem	Bandwidth (bps)	000к - 000к - 000к -	Up Do	wn
Real Time Net-Flow	Smart View	8.0	CPU Core Usage	8	Network	k Interfaces		
-	Name	Status	5.0 7		Status	Interface	IP Address	Rate
	License Validity	4 days 23 hours 1 minute	4.0 -		UP	WAN-1**	192.168.5.141	650.58 Kbps
	AV Signature Updates	ERROR	%		UP	LAN-1	192.168.100.1	617.18 Kbps
	HTTP/S Category List Updates	<ul> <li>ERROR (DNS)</li> </ul>	e 3.0 -					
	Admin Password Change	REQUIRED	0 2.0 -					
	Email Account Settings	* Disable	⊃ <sub>1.0</sub> -					
	Remote Config Backup	Disable						
	LAN Users	1	0.0		-			
	Software Undates	Un-to-Date	0	1 2 3				

- WAN-1 / WAN-2 status can also view from "Dashboard" "IPV4 Port Status" from the left side tree
- 11. Incase if the location has more than 1 Internet connection then follow the above steps to configure the second internet connection in "WAN-2" and connect the ISP link Ethernet cable to PORT-2 in the NF NFGW appliance.

#### **Configuring LAN (Local Area Networks – Links)**

1. LAN-1 is part of "Confguration – Network Settings – LAN-1 (The physical port in the NGFW appliance is PORT-3)

Please note: Incase the appliance you have purchased has 6 Ethernet Port by default then the LAN-1 physical port is named as "PORT-4" in the sticker.

2. The default LAN-1 interface IP is 192.168.100.1 and the DHCP Server is enabled with DHCP pool range from 192.168.100.100 – 192.168.100.200

C. ANNA		net for intelligent networ	Ks .
Dashboard Configurat	on Status Reports Admi	inistration	DEMO
Open All   Close All	IPv4 Network Settings: LAN-1		
Configuration		LAN-1	
WAN-2	LAN Connection Type:	STATIC (Fixed IP)	
	Description:		
- LAN-1	Static Mode IP Address:	192, 168, 100, 1	
LAN-3	Subnet Mask:	255.255.255.0	
Ethernet LAG	RP Filter:	Enable	
Alternate DNS Servers     Internal DNS Domains	Proxy ARP:	Disable	
Routing	Network Zone:	LAN	
- SD-WAN - Firewall / NAT	Link Failure Detection:	None	
Pro IPv6	Additional IP Addresses (IP Alias):	Disable	
Email Security	MAC Address Clone		
VPN Secure Tunnels     Image: Secure Tunnels     Image: Secure Tunnels	State:	Disable	
	DHCP Server	Canuar	
Alerts / Logs / Reports	Subnet	Server	
	Lease Type :	Default	Lease Management -
	Start IP Address [Auto Fil]:	192.168.100.100	
	End IP Address [Auto Fil]:	192.168.100.200	
	Save Save Reset	Ophonal	🖉 Restart Service



- 3. If required the LAN IP can be changed as per choice of the customer and subsequently the DHCP pool size can also be increased to meet the DHCP expected ranges.
- 4. Additionally, if LAN-2 (a separate LAN Segment is required can also be configured under LAN-2 configuration tab

### **Configuring UAM -Hotspot NAS Module**

Network Access Server (NAS) / Universal Access Method (UAM)

NAS Module has 3 configurable screens

- NAS Server Settings
- Exclusions (Whitelist IP / Domains)
- Bandwidth Settings (on the ISP level)

V CYC	netfox intelligent networks	
Dashboard Configurat	tion Status Reports Administration	DEMO We
Open All   Close All	Hotspot-NAS Settings	
Configuration	Server Settings Exclusions Bandwidth Settings	Sestart Service
Routing     SD-WAN     Firewall / NAT	Service: Disable 💌	
Ves Scurty     Ves Scurty     Ves Scurty     Hotspot NAS     Hotspot NAS     Oral Settings     Capitve Portal     Ven Scure Tunnels     Ven Scure Tunnels     Management     Alerts / Logs / Reports	Description: Hotspot NAS Radius Server Settings Reduct Server Settings	
	A steenther: bcaton-1 Accounting Server: External Radius Server	I
	NAS Secret [Show]:     •••••••••	
	NAS IP: Auto Detect	
	Protocol: UDP Authentication Port: 1812	
	Accounting Port: 1813	
	Save 🖉 🗶 Reset	

#### **NAS: Server Settings**

#### Table 1 NAS: Server Settings: Control

Field	Description
Service	Checkbox used to enable or disable the NAS Module. The NAS module is enabled when the checkbox is selected
Description	Relevant name to identify the NAS Module



Description
Identifier used to identify the UAM / NAS to post the
details back from Radius Server
Values: Name or MAC address
Example: Name: ANTAMEDIA-BLR
MAC: 00:0A:00:00:00:00
External Radius Server
Support values: IP address   FQDN
Secret key to handshake with the radius server
IP address of the UAM / NAS
Supported Values: Auto Detect   Specify
On choice of specify the IP address of the NAS can be
configured
UDP
1812 (Standard Port)
1813 (Standard Port)
Time interval in which the UAM/NAS provide usage
information to Radius server
Values: max up to 10 minutes   Default: 3 mins
3799 (Standard Port)

#### Table 2 NAS: Server Settings: Radius Server Settings

#### Table 3 NAS: Server Settings: User Login Settings

Field	Description
Authentication Method	Radius Login
NAS Web Server Address	Values: Auto Detect & Specify   Default: Auto Detect
	On choice of specify the IP / Name of the NAS web server
	can be configured
Captive Portal	Values:
	Internal Web Server (Port 80)
	Internal SSL Web Server (Port 443)
	External Web Server (Port 80)
	External SSL Web Server (Port 443)



	For <mark>ANTAMEDIA: Choose – External SSL Web Server</mark>
	External web server URL to be configured is
	https://wifihotspot.rs/login/netfox
Internal Web Server Port	2280 (This is the port use by NAS to communicate to the
	guest users)
Redirect URL after login	Values: Original Request URL Specify Redirect URL Welcome URL In ANTAMEDIA being the captive portal is from the Radius the Redirect UTL after login is controlled by the Radius server
Account Status after login	<ul> <li>Values:</li> <li>1. Show in Popup Window (Pop up windows with login successful message along with time, reset password option (user details)</li> <li>2. Disable</li> <li>It is advisable to configure as "Disable" as most of the apple IOS wont support show in pop window</li> </ul>
User Idle Timeout(min)	Values: From 5 – 14400 mins   Default:30 mins

#### Table 4 NAS: Server Settings: MAC authentication

Field	Description
MAC Authentication Method	Values:
	Disable
	MAC as username
	MAC as username and password
	Default: Disable

Field	Description
Source Zone	LAN
Destination Zone	WAN
UAM Port	2281



## **Tested - Configuration snapshot for NAS Server Settings**

Dashboard	Configuratio	n Status F	Reports Administration	
Open All   Close All	H	otspot-NAS Settings		
Configuration		Server Settings Exclusion	Bandwidth Settings	
	6	- Control	bandwath occurgs	
E Country		Service:	Enable	~
Firewall / NAT		Description:	Hotspot NAS	
Web Security		- Radius Server Settings		
Email Security		NAS Identifier:	00:ec:ac:ce:75:81	
NAS Settings	6	Accounting Server:	External Radius Server	~
Captive Port	al	Radius Server IP / Name:	13.92.228.228	
High Availability	lileis	NAS Secret [Show]:	•••••	
QoS     Management		NAS IP:	Auto Detect	*
	eports	Protocol:	UDP	
		Authentication Port:	1812	
		Accounting Port:	1813	
		Interim Update Interval:	3 Minutes	*
		CoA Port:	3799	
🗈 🫅 Web Security		User Login Settings		
Email Security		Authentication Method:	Radius Login	~
NAS Settings		NAS Web Server Address:	Specify	*
Captive Portal     Ortal     Ortal     Ortal     Ortal	iels	NAS Web Server IP / Name:	lan-100-1.tacitine.in	
High Availability		Captive Portal:	External SSL Web Server	~
∎ 1005 ∎ 1005 ∎ 1005 ■ 1005		External Web Server URL:	https://wifihotspot.rs/login/netfox	
🗄 📋 Alerts / Logs / Rep	ports	Redirect URL After Login:	Original Request URL	¥
		Account Status After Login:	Disable	~
		User Idle Timeout (Min):	30	×
		MAC Authentication		
		MAC Auth Method:	Disable	*
		Firewall Zone		
		Source Zone:	LAN	
		Destination Zone:	WAN	
		UAM SSL Port:	2282	
		Save 🧭 X Reset		

## NAS Settings: Exclusion (Whitelist)

NetFox NAS exclusion support whitelist of domains, exclusion of IPV4 IP, IPV6 IP and Source MAC.

The IP address, MAC and domains added in the exclusion list do not require authentication from Radius or in other words will work without Radius authentication.



Dashboard Configuration	Status Reports	Administration		EN6200-Q-15 T
Open All   Close All       Hot         Configuration <ul> <li>Configuration</li> <li>Retwork Settings</li> <li>SD-WAN</li> <li>SD-WAN</li> <li>Firewall / NAT</li> <li>Firewall / NAT</li> <li>Firewall / NAT</li> <li>Hotspot NAS</li> <li>Massettings</li> <li>Captive Portal</li> <li>PN Secure Tunnels</li> <li>High Availability</li> <li>QoS</li> <li>Management</li> <li>Dynamic DNS</li> <li>SNMP</li> <li>Remote Syslog</li> <li>NMS Agent</li> <li>Der Alerts / Logs / Reports</li> </ul>	Server Settings       Exclusions       Bandwin         Exclusions       Exclusions       Eandwin         Exclude Source IPv4 Address:       Exclude Source IPv6 Address:       Exclude Source IPv6 Address:         Exclude Destination IPv6 Address:       Exclude Destination Domain       Exclude Destination Domain List:         Save       Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image: Save Image	dth Settings       None       None       None       None       None       Specify       wifhotspot.rs       wifhotspot.rs/wifnotspot.surgedge.net       cdn.starthotspot.com       cdn.starthotspot.com       cdn.wifhotsnot.in	<ul> <li>✓</li> <li>✓</li></ul>	Restart Service

 Table 6 NAS Settings: Exclusions

Field	Description
Exclude Source IPV4 address	Values: None   Specify
	For IP to exclude from Radius Authentication please choose <mark>"Specify"</mark> and add the IPV4 IP address
Exclude Destination IPV4	Values: None   Specify
address	For the destination IPs to get exclude from Radius Authentication please choose <mark>"Specify"</mark> and add the IPV4 Destination IP address
Exclude Source MAC	Values: None   Specify
	To exclude source MAC address of a selected devices choose <mark>"Specify"</mark> and add the MAC address
Exclude Source IPV6 address	Values: None   Specify
	For IP to exclude from Radius Authentication please choose <mark>"Specify"</mark> and add the IPV6 IP address
Exclude Destination IPV6	Values: None   Specify
address	For the destination IPs to get exclude from Radius Authentication please choose <mark>"Specify"</mark> and add the IPV6 Destination IP address
Exclude Destination Domain	Values: None   Specify
	To whitelist domains from Radius server authentication choose "Specify" and input the domain names



For the testing purpose below are the domains are requested to be whitelisted from UAM-NAS module

wifihotspot.rs wifihotspot.io starthotspot.com cdnhotspot.azureedge.net cdn.starthotspot.com cdn.wifihotspot.io t-msedge.net static.cloudflareinsights.com

#### **NAS Settings: Bandwidth Settings**

NetFox NAS Bandwidth Settings has support to added multiple ISP connection bandwidth speed which help to aggregate the bandwidth and ensure the dynamic algorithm is kicking in right time to manage the bandwidth for the guest users.

If the location has only one ISP link, then input the upload and download bandwidth of the ISP link in Bandwidth Settings tab.

tion Status Reports	a Administration	_		EN6200-Q-15 Tue 1	
Hotspot-NAS Settings					
Hotspot-NAS Settings Server Settings Exclusions B Bandwidth Manager Bandwidth Manager: Er Default WAN interface Bandwidth Default Upload Bandwidth: 10 Default Upload Bandwidth: 10 WAN Interface Bandwidth Bandwidth Settings	Bandwidth Settings nable  sare assumed for unconfigured WAN interfa 00000  Kbps 00000  Kbps	ces. (Configure	e]	Restart Service	
Dos     Management     Model     Add					
Id Enable WAN Interface Bandwidth Interface Bandwidth Enable: WAN Interface: Description: Upload Bandwidth: Download Bandwidth: Save 💿 🗙	Interface Name Description  Enable  WAN-1  Optional  Required  Required  Cancel	Kbps	Upload Bandwidth	Download Bandwidth	
	Jon     Status     Report       Hotspot-NAS Settings     Exclusions       Bandwidth Manager:     Bandwidth Manager:       Bandwidth Manager:     E       Default WAN Interface Bandwidth     Interface Mandwidth       Default Upload Bandwidth:     Interface Bandwidth       WAN Interface Bandwidth     Interface Bandwidth       WAN Interface Bandwidth     Interface Bandwidth       Upload Bandwidth:     Interface Bandwidth       Upload Bandwidth:     Enable:       WAN Interface:     Description:       Upload Bandwidth:     Download Bandwidth:       Save     X	Jon     Sistus     Reports     Administration       Hotspot-NAS Settings     Server Settings     Exclusions     Bandwidth Settings       Bandwidth Manager     Bandwidth Manager:     Enable       Bandwidth Manager:     Enable     Image: Enable       Default WAI Interface Bandwidth:     100000     Kbps       Default Upload Bandwidth:     100000     Kbps       WAN Interface Bandwidth:     100000     Kbps       Id     Enable     Default Power       VAN Interface Bandwidth:     Enable     Description       WAN Interface:     WAN-1     Image: Enable       VAN Interface:     WAN-1     Image: Enable       Upload Bandwidth:     Required     Download Bandwidth:       Required     Download Bandwidth:     Required       Download Bandwidth:     Required       Download Bandwidth:     Required	Jon     Sistus     Reports     Administration       Hotspot-NAS Settings     Exclusions     Bandwidth Settings       Bandwidth Manager     Bandwidth Settings       Bandwidth Manager     Enable       Default WAN Interface Bandwidth     Image: Configure       Default WAN Interface Bandwidth     100000       Klaps     Vew Details       WAN Interface Bandwidth     100000       Klaps     Add Modry       Vew Details     Default       WAN Interface Bandwidth     Enable       Mod Modry     Vew Details       WAN Interface Bandwidth     Enable       Mod Modry     Vew Details       Vew Details     Default       MAM Interface Bandwidth     Enable       VAN Interface Bandwidth     Enable       VAN Interface Bandwidth     Enable       VAN Interface Bandwidth     Enable       VAN Interface Bandwidth     Required       Van Interface Bandwidth     Required       Van Interface Bandwidth     Required       Save     Cancel	Un     Status     Reports     Administration       Hotspot-NAS Settings     Exclusions     Bandwidth Settings       Bandwidth Manager     Bandwidth Manager       Bandwidth Manager     Enable       Default WAN Interface Bandwidths are assumed for unconfigured WAN Interfaces.     [Configure]       Default Upload Bandwidth:     100000     Kbps       WAN Interface Bandwidth     100000     Kbps       WAN Interface Bandwidth     100000     Kbps       WAN Interface Bandwidth:     Enable     Interface Name       Upload Bandwidth:     Required     VAN Interface:       WAN Interface:     WAN-1     Viewer Settings       Upload Bandwidth:     Required     Kbps       Download Bandwidth:     Required     Kbps	

Please note: The bandwidth speed calculation is set in "kbps"

For example: If customer have only one ISP link then do the following

- 1. Click on NAS Settings Bandwidth Settings
- 2. Set Bandwidth Manager as "Enable"
- 3. In the "Default WAN Interface Bandwidth settings "Input the Default Upload and Download bandwidth of the IPS link
- 4. Click on "save" and then Restart Service



Incase if the customer has multiple ISP links, then in the "Default WAN Interface Bandwidth Settings" add all the ISP links which is getting configured in NF Series and then input in Upload and Download bandwidth. Then click on "Configure"

- 1. WAN Interface Bandwidth settings will open
- 2. Click on "Add"
- 3. "Enable" the Interface
- 4. Choose the WAN Interface from the dropdown menu (example: WAN1, WAN2, WAN4G)
- 5. Input the upload and download bandwidth as per the ISP plan
- 6. Repeat the above for the other available ISP links configured in the NF Series firewall

#### **Option to upload SSL Certificates**

To upload the SSL Certificates

- 1. Click on "Administration" tab
- 2. Choose System Management option in the left tree
- 3. Click on Web Server Settings
- 4. Click on "Upload Customer Certificate"
- 5. Upload the relevant certificate, Private key and Certificate Chain

Please note: only "pem" format is supported

Dashboard	Configuratio	n Status Re	ports	Administration				
Open All   Close All		Web Server Settings						
😼 Administration		Web Server Settings						
🖻 😑 System Manageme	ent	HTTPS Port:	4433					
System Setting	js	SSL Certificate [Show]:	Custom		~	Upload Custom Certificat	e	
Login Policy								
Password Polic	cy	Cause 🙆 🖌 I	Depat					Destaut Comise
Time Zone		Save 🖉 🦱	Reset					cestart service
NTP Settings								
Web Server Se	ettings	Web Server SSL Certificate	Upload (PE	M format)				
One-Time Reb	poot	Certificate:	Certific	ate file in PEM format		Select		
Change Login Pas	ssword	Private Key:	Private	key file in PEM format		Select		
Configuration Man	gement nagement	Certificate Chain (Optional)	: Certific	ate chain file in PEM format		Select		
Software Manager	ment							
Ethernet Port Man	agement							
License Upload		Upload 📀 🗙	Cancel					
Terms								
System Reboot								

#### Logged In User Details

NF Series NGFW has detailed logs and reports for the entire suite of feature sets if offers. Related to UAM-NAS the logged in active users, Bandwidth Toppers among the live users and Account Status (atleast once logged in user details) are available in a mouse click.

Click on "Status" on the Top bar and then click on "Hotspot NAS" on the left tree.



## **Hotspot NAS – Active Users**

ation	Status	Reports	Administration	-	-	_	-	_	EN6200-Q-15	Wed 12 Apr	2023 16:48:29 IST
Hot	spot Login Users										
E	Show Time in Minutes							📔 Graph Sel	ected User	Actions • Site 1	td: No Filter
E	User Id	IP Address	MAC Ad	idress	Idle Time	Used Bytes	Used Time	Dn Speed	Up Speed	Rx Bytes	Tx Bytes
	NETFOX217749357	192.168.100.122	14:58:	d0:16:9f:e3	00:00:00	3.97 MB	00:04:59	20.97 Mbps	15.73 Mbps	3.19 MB	801.43 KB
	NETF0X358094926	192.168.100.123	6c:c2:	17:7c:ac:09	00:00:00	1.65 MB	00:09:23	20.97 Mbps	15.73 Mbps	1.56 MB	104.2 KB
8	NETFOX376829799	192.168.100.120	68:f7:2	8:ef:12:4d	00:06:00	254.5 KB	00:14:48	20.97 Mbps	15.73 Mbps	192.33 KB	62.19 KB
	ation Hot	Ation Status Hotspot Login Users Show Time in Minutes User Id NETFOX21749357 NETFOX358094926 NETFOX376829799	Status         Reports           Hotspot Login Users         Work           Show Time in Minutes         PAddress           User Id         IP Address           NETFCX217749357         192.168.100.122           NETFCX376829799         192.168.100.120	Status         Reports         Administration           Hotspot Login Users         Image: Comparison of Com	Status         Reports         Administration           Hotspot Login Users           Show Tme in Minutes           User Id         IP Address         MAC Address           NETRO/217749357         192.168.100.122         14:58:d016:5f:e3           NETRO/258094926         192.168.100.123         6c:c2:17:7c:ac:09           NETRO/376829799         192.168.100.120         68:f7:28:ef:12:4d	Status         Reports         Administration           Hotspot Login Users           Show Time in Minutes           User id         IP Address         MAC Address         Idle Time           NETFOX217749357         192.168.100.122         14:58:d0:16:5fre3         00:00:00           NETFOX2376829799         192.168.100.123         66:c2:17:7ca:09         00:00:00           NETFOX376829799         192.168.100.120         68:f7:28:ef:12:4d         00:06:00	Status         Reports         Administration           Hotspot Login Users           Show Time in Mnutes           User Id         IP Address         MAC Address         Ide Time         Used Bytes           NETFOX217749357         192.168.100.122         14:58:d0:16:5f:e3         00:00:00         3.97 MB           NETFOX23768/29799         192.168.100.123         6e:cr2:17:/crac:09         00:00:00         1.65 MB           NETFOX3768/29799         192.168.100.120         68:f7:28:ef:12:4d         00:06:00         254.5 KB	Status         Reports         Administration           Hotspot Login Users           Show Time in Minutes           User Id         IP Address         MAC Address         Ide Time         Used Bytes         Used Bytes           User Id         IP Address         MAC Address         Ide Time         Used Bytes         Used Time           NETFOX217749357         192.168.100.122         14:58:d0:16:59:63         00:00:00         3.57 MB         00:04:59           NETFOX376823799         192.168.100.123         66:c12:17:7cac09         00:00:00         1.65 MB         00:09:23           NETFOX376823799         192.168.100.120         68:17:28:ef:12:44         00:06:00         2545 KB         00:14:48	Administration         Status         Reports         Administration           Hotspot Login Users           Show Time in Minutes         Image: Show Time in Minutes <td>Administration         Reports         Administration         EH8203-Q-13           Hotspot Login Users           User Id         IP Address         MAC Address         Ide Time         Used Bytes         Used Time         Dn Speed         Up Speed           User Id         IP Address         MAC Address         Ide Time         Used Bytes         Used Time         Dn Speed         Up Speed           NETFOX217749357         192.168.100.122         14:58:d0:16:5f:e3         00:00:00         3.97 MB         00:04:59         20.97 Mbps         15.73 Mbps           NETFOX326623799         192.168.100.120         68:87:28:ef:12:4d         00:06:00         254.5 KB         00:14:48         20.97 Mbps         15.73 Mbps</td> <td>Administration         Reports         Administration         EH6203-Q-15         Wed 12 Apr           Hotspot Login Users           User Id         IP Address         MAC Address         Ide Time         Used Bytes         Used Time         Dn Speed         Up Speed         Rx Bytes         Stel           User Id         IP Address         MAC Address         Ide Time         Used Bytes         Used Time         Dn Speed         Up Speed         Rx Bytes         3.19 MB         00:04:59         20.97 Mbps         15.73 Mbps         1.98 MB         1.96 MB         00:09:23         20.97 Mbps         15.73 Mbps         1.56 MB         00:09:23         20.97 Mbps         15.73 Mbps         1.92.33 KB           NETFOX3768/32799         192.168.100.120         68:87:28:ef:12:4d         00:06:00         254.5 KB         00:14:48         20.97 Mbps         15.73 Mbps         192.33 KB</td>	Administration         Reports         Administration         EH8203-Q-13           Hotspot Login Users           User Id         IP Address         MAC Address         Ide Time         Used Bytes         Used Time         Dn Speed         Up Speed           User Id         IP Address         MAC Address         Ide Time         Used Bytes         Used Time         Dn Speed         Up Speed           NETFOX217749357         192.168.100.122         14:58:d0:16:5f:e3         00:00:00         3.97 MB         00:04:59         20.97 Mbps         15.73 Mbps           NETFOX326623799         192.168.100.120         68:87:28:ef:12:4d         00:06:00         254.5 KB         00:14:48         20.97 Mbps         15.73 Mbps	Administration         Reports         Administration         EH6203-Q-15         Wed 12 Apr           Hotspot Login Users           User Id         IP Address         MAC Address         Ide Time         Used Bytes         Used Time         Dn Speed         Up Speed         Rx Bytes         Stel           User Id         IP Address         MAC Address         Ide Time         Used Bytes         Used Time         Dn Speed         Up Speed         Rx Bytes         3.19 MB         00:04:59         20.97 Mbps         15.73 Mbps         1.98 MB         1.96 MB         00:09:23         20.97 Mbps         15.73 Mbps         1.56 MB         00:09:23         20.97 Mbps         15.73 Mbps         1.92.33 KB           NETFOX3768/32799         192.168.100.120         68:87:28:ef:12:4d         00:06:00         254.5 KB         00:14:48         20.97 Mbps         15.73 Mbps         192.33 KB

All the live users will be part of the active users. For each active users the live bandwidth graph is available and also their usage details. If required the active users can be disconnected using admin privilege

## **Hotspot NAS – Bandwidth Toppers**

Dashboard	Configuration	1		Status	Report	s Administr	ration	_			
Open All   Close All	ĺ	Hotspot Top Bandwidth Users (Previous Accounting Interval)									
💡 Status											
System Info			#	User Id		IP Address	MA	C Address	Download Bandwidth	Upload Bandwidth	
🗄 🧰 IPv4 Network			1	NETFOX21774935	57	192.168.100.122	14	:58:d0:16:9f:e3	19.59 Kbps	5.68 Kbps	
IPv6 Network			2	NETFOX35809492	26	192.168.100.123	6c	:c2:17:7c:ac:09	109.87 bps	-	
Custem			3	NETFOX37682979	99	192.168.100.120	68	:f7:28:ef:12:4d	-	-	
System     System     Hotspot NAS											
Active Users											
Bandwidth Topp	ers										
Account Status											

Among the live (active) users at any point in time the bandwidth topper table shows the users in descending order with the highest bandwidth users on top of the table. It is listed highest to lowest.

## **Hotspot NAS – Account Status**

Dashboard Config	uration		Status	Reports	Administration	-			-	-	EN6200-Q-15	Wed 12 Apr 2	023 16:51:42 IST
pen All Close All Hotspot Account Status													
Status		🔄 Show Time in Minutes 🕌 Bandwidth Graph 📃 Daily Usage 🗔 Actions 🔹 Site Id:											: No Filter
System Info			Users Id		Data	Usage		Marth Users From		Used	Time		Tabel Consistent
IPv4 Network     IPv6 Network			User Id	Today	This Week	This Month	Life Time Total	Month Usage From	Today	This Week	This Month	Life Time Total	Iotal Sessions
E C VPN Tunnels		0	NETFOX138597451	-	-	92.51 MB	92.51 MB	Mar 24, 2023 17:47	00:00:00	00:00:00	00:04:00	00:04:00	1
🗉 🦲 System			NETFOX211007283		-	13.06 MB	13.06 MB	Apr 07, 2023 15:28	00:00:00	00:00:00	00:10:00	00:10:00	1
🗄 😋 Hotspot NAS			NETFOX217749357	4.02 MB	4.02 MB	5.64 MB	5.64 MB	Apr 07, 2023 19:14	00:09:00	00:09:00	00:13:00	00:13:00	2
Active Users			NETFOX358094926	1.65 MB	1.65 MB	254.38 MB	254.38 MB	Mar 24, 2023 17:40	00:12:00	00:12:00	00:17:00	00:17:00	3
Bandwidth Toppers		2	NETFOX376829799	3.91 MB	3.91 MB	3.91 MB	3.91 MB	Mar 24, 2023 17:46	00:33:59	00:33:59	00:34:59	00:34:59	3
Account status			NETFOX637227626	-	-	114.83 MB	114.83 MB	Mar 24, 2023 17:02	00:00:00	00:00:00	01:18:58	01:18:58	7
Jorivices     Indates			NETFOX647000886	(m)		84.82 MB	84.82 MB	Mar 24, 2023 17:36	00:00:00	00:00:00	00:17:00	00:17:00	2
Traffic Analyzers			NETFOX735846020	-	-	-	-	Apr 07, 2023 19:19	00:00:00	00:00:00	00:01:00	00:01:00	1
E 📋 Troubleshoot			NETFOX786636604	-	1 A A	30.07 MB	30.07 MB	Apr 07, 2023 15:19	00:00:00	00:00:00	00:13:00	00:13:00	1

This log shows all the users who logged in atlease once in the system. It holds the history of their usage on Today, This week, This month, Lifetime Total, Total sessions etc. Per user level the bandwidth usage graphs can be downloaded and also Daily Usage.



### **User Detail Reports - Hotspot NAS**

This is the history kept for a period of 60 days and archive of 180 in NF Series NGFW. NF Series has built in 64GB or above SSD which has the ability to hold the reports for the above said time period. It has more than 24 reports which includes Hotspot NAS reports as well.

Click on Report on the Top bar and then click on Hotspot NAS on the left tree.

### **Reports - Hotspot NAS - User Sessions**

Dashboard Co	onfiguratio	n Status	Reports	Administration				EN6200-Q-1	5 Wed 12 /	Apr 2023 16:56:22 IST			
Open All   Close All		Hotspot User Session Re	Hotspot User Session Report										
👰 Reports		Period: This Month	▼   Q	Refresh						K CSV Ex			
E 🔄 Report		Login Time 👻	Uniq Id	User Id	IP Address	MAC Address	Used Time	Total Bytes	Upload Bytes	Download Bytes			
🕀 🧰 Web Browsing		Apr 12, 2023 15:18:13	1360430240	NETFOX376829799	192.168.100.120	68:f7:28:ef:12:4d	00:25:00	3.66 MB	1.19 MB	2.47 MB			
Bandwidth Meter		Apr 07, 2023 19:21:17	1395686001	NETFOX358094926	192.168.100.122	14:58:d0:16:9f:e3	00:01:00	0	-	-			
		Apr 07, 2023 19:19:55	4045165527	NETFOX735846020	192.168.100.122	14:58:d0:16:9f:e3	00:01:00	0	-	-			
System		Apr 07, 2023 19:14:39	342302578	NETFOX217749357	192.168.100.122	14:58:d0:16:9f:e3	00:04:00	1.62 MB	84.8 KB	1.55 MB			
Firewall		Apr 07, 2023 15:28:26	3438025568	NETFOX211007283	192.168.100.124	4e:c6:01:1c:d1:ca	00:10:00	13.06 MB	8.78 MB	4.29 MB			
🖻 🚖 Hotspot NAS		Apr 07, 2023 15:19:40	610415189	NETFOX786636604	192.168.100.119	ce:d8:9a:78:5c:44	00:13:00	30.07 MB	24.86 MB	5.21 MB			
User Sessions		Apr 07, 2023 14:22:18	1511667922	NETFOX647000886	192.168.100.116	bc:64:d9:38:35:13	00:16:00	84.82 MB	28.14 MB	56.7 MB			
Session Summa	ary	Apr 07, 2023 14:08:39	175193753	NETFOX637227626	192.168.100.124	4e:c6:01:1c:d1:ca	00:48:59	675.96 KB	106.25 KB	569.72 KB			
Disk Usage		Apr 04, 2023 18:03:45	175193753	NETFOX637227626	192.168.100.122	14:58:d0:16:9f:e3	00:03:59	7.8 MB	466.47 KB	7.35 MB			
Digest Archive		Apr 04, 2023 17:49:51	175193753	NETFOX637227626	192.168.100.122	14:58:d0:16:9f:e3	00:04:00	2.99 MB	200.97 KB	2.78 MB			
U Digest Alenine		Apr 04, 2023 17:30:01	175193753	NETFOX637227626	192.168.100.122	14:58:d0:16:9f:e3	00:09:59	44.66 MB	12.94 MB	31.71 MB			
		Apr 04, 2023 17:25:01	175193753	NETFOX637227626	192.168.100.122	14:58:d0:16:9f:e3	00:04:01	3.34 KB	3.34 KB	-			
		Apr 04, 2023 17:04:30	175193753	NETFOX637227626	192.168.100.122	14:58:d0:16:9f:e3	00:01:00	0	-	-			

User session provides all the uses logged in and logged out details on session level with total time on the network, their upload and download details. Session report can be downloadable in .csv format and we can search for Today, This week, This Month and Customer period based on the requirement.

#### Open All | Close All 🖳 Reports Report Repo 114.44 MB 85.83 ME 🗄 🧰 Intrusion System Up 57.22 ME User Sessions 28.61 M Disk Usage Log Archive Apr 12 Apr 0 Digest Archive Daily Daih Daily 🔘 Monthly CSV Export 🔘 Weekly Day Uniq Id Total Bytes Download Bytes Upload Bytes Apr 12, 2023 3.66 MB 2.47 MB 1.19 MB Apr 07, 2023 130.21 MB 68.29 MB 61.93 MB

#### **Reports - Hotspot NAS - Session Summary**

Session Sumary is available on Daily, Weekly & Monthly basis and can be filter based on IP, MAC, Sessions and User ID. The report will be available for 60 days in the NF Series NGFW



#### **Guest User Login Flow**

- 1. The product support both wired and wireless devices in the network for Radius authentication
- 2. Incase of Wi-Fi devices like laptop, tablets or mobile phones first the device need to connect to the Wi-Fi AP SSID (with or without password)
- 3. Once connected to Wi-Fi Access Points if it is a mobile or tablet the device automatically open up the captive portal from Radius Server as the NAS device redirect all the request to <u>https://wifihotspot.rs/login/netfox</u>
- 4. If the users are using laptop or desktop then few browsers with older version automatically opens up the captive portal and the latest upgraded browsers user need to open the browser and type any "http" website like "ndtv.com" "neverssl.com" or any such website to get the captive portal

Note:

NetFox NF series NAS module on identifying the user trying to connect to internet will redirect the user to external SSL captive portal <u>https://wifihotspot.rs/login/netfox</u> and along with that redirect in the URL will send all the required information to Radius server to post back the user details.

The redirect URL from NetFox is as follows

https://wifihotspot.rs/login/netfox?rip=192.168.100.10&rmac=8c:8c:aa:65:29:73&nasmac=00:ec:ac: ce:75:7f&nas\_id=00:ec:ac:ce:75:81&sess\_id=1edf41a9422dd5d8a895a3de16cd222a&submit\_url=ht tps://lan-100-1.tacitine.in:2282/submit/user\_login.php&logout\_url=https://lan-100-1.tacitine.in:2282/submit/logout.php&url=http://ndtv.com/

On the above redirection request the Captive Portal will be loaded to users requesting for username and password

🍸 TACIT-CBE-NAS-TESTING - 192.1 🗙 🔬 Login	+	$\sim$	-	٥	×						
← → C 🔒 wifihotspot.rs/login/netfox?rip=192.168.100.122&rmac=14:58:d0:16:9f:e3&nasmac=e4:3a:6e:1f:7c:66&nas_id=00:ec:ac:ce:75:81&sess_id=d1a96fa90&e5020ba2fffb0db77											
M Gmail - Inbox 🚹 Tamilnadu- Support 🍸 Product-Server - 19 📀 Rem	ote Access  🤁 Port Check 🧧 Windows - Techbout 🏻 🚉 Google Translate										
	Please login										
	Username										
	Password										
	Login										

User need to enter the username and password provided by Antamedia team to get authenticated from the Radius Server and once in 3 mins NetFox NAS module will send user data usage information to Radius Server. On successful login the user will be automatically redirected to Antamedia website.





#### **User Profile**

Users at anytime want to view their profile like Login Status, Data Usage, Bandwidth Consumed or to change password can easily access their user profile by typing <u>http://1.1.1.1</u> in the browser. This URL will open up the user profile window with options

- 1. Login Status (Login duration and option to logout)
- 2. Data Usage Which provides daily usage details
- 3. Bandwidth Graph with option to filter for custom time period
- 4. Change Password
- 5. Logout

Account Details × +		
← → C 🔒 lan-100-1.tacitine.in:2282/html/user_status.p		
M Gmail - Inbox  🛅 Tamilnadu- Support 🏋 Product-Server - 19.	🥱 Remote Access 📲 Port Che	eck 💶 Windows - Techbout 🧕 Google Translate 🍸 TACIT-CBE-N
		ANTAMEDIA Login Status Bandwidth Graph Data Usage Logout
	Account Status	
	Your IP Address	192.168.100.122
	Your MAC Address	14:58:d0:16:9f:e3
	Login Time	Apr 12, 2023 18:26:01
	Account Expiry Time	Apr 12, 2023 18:53:02
	Upload Bandwidth	15728 Kbps
	Download Bandwidth	20971 Kbps
	Today's Data Usage	31.99 MB
	Monthly Data Usage	31.99 MB