NTU-52W

NTU-52W
3.0.3

IP-: http://192.168.1.1
: user
: user

PON — « », 2,5 / downlink 1,25 / uplink. PON IP.

GPON . , - . , ON , -.

, , , NTU-52W.

, .

, , .

NTU-52W — . . GPON PON-, Ethernet.

NTU-52W IPTV, OTT . NTU-52W Wi-Fi IEEE 802.11b/g/n.

:

- 1 PON SC/APC (WAN);
- Ethernet RJ-45 LAN (LAN):
  - 1 RJ-45 10/100BASE-T ( );
  - 1 RJ-45 10/100/1000BASE-T ( ).
- Wi-Fi 802.11b/g/n.

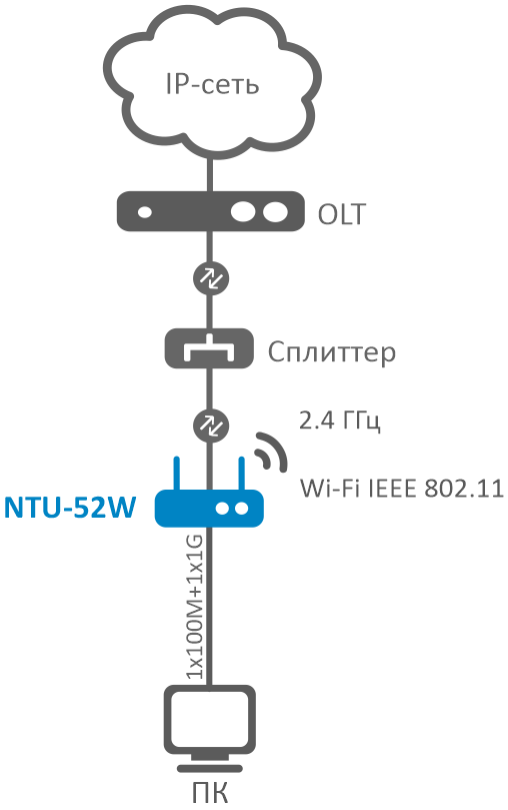
220 /12 B.

:

- *c :*
  - TR-069;
  - «» «», ;
  - PPPoE (auto, PAP-, CHAP-, MSCHAP-);
  - IPoE (DHCP-client static);
  - DHCP (DHCP- WAN, DHCP- LAN);
  - Multicast- Wi-Fi;
  - DNS (Domain Name System);
  - DynDNS (Dynamic DNS);
  - UPnP (Universal Plug and Play);
  - NAT (Network Address Translation);
  - NTP (Network Time Protocol);
  - QoS;
  - IGMP-snooping;
  - IGMP-proxy;
  - Firewall;
  - VLAN IEEE 802.1Q.
- *Wi-Fi:*

    - 802.11b/g/n.
- *web-, TR-069, OMCI;*
- , :
    - TR-069;
    - web-;
    - CLI;
    - OMCI.

NTU-52W.



1 – NTU-52W

1.

1 –

Ethernet LAN

	2
	1 10/100BASE-T (RJ-45) 1 10/100/1000BASE-T (RJ-45)
	, 10/100/1000 /, /
	IEEE 802.3i 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3x Flow Control IEEE 802.3 NWay auto-negotiation

PON

	1

	ITU-T G.984.x Gigabit-capable passive optical networks (GPON) ITU-T G.988 ONU management and control interface (OMCI) IEEE 802.1Q Tagged VLAN (VLAN WAN-: 0, 4032, 4022, 4023, 4024, 4027, 4026, 4000~4005, 4095) IEEE 802.1P Priority Queues IEEE 802.1D Spanning Tree Protocol
	SC/APC ITU-T G.984.2, ITU-T G.984.5 Filter, FSAN Class B+, SFF-8472
	SMF - 9/125, G.652
	1:128
	20
:	1310
• upstream	1244 /
•	+0,5 +5
• (RMS)	1
:	1490
• downstream	2488 /
•	-8 -28, BER1.0x10^{-10}
	-8

Wi-Fi

	IEEE 802.11b/g/n
	2,400 ~ 2.483,5
	DQPSK, DBPSK, CCK, BPSK, QPSK, 16QAM, 64QAM, OFDM
	802.11b: 1, 2, 5.5 11 / **802.11g:** 6, 9, 12, 18, 24, 36, 48 54 / **802.11n**: 6,5 300 / (MCS0 MCS15)
	802.11b (11 /): 18 **802.11g (54 /)**: 16 **802.11n (MCS7)**: 16 **802.11n (MCS0)**: 18
MAC-	CSMA/CA- ACK 32 MAC
	64/128- WEP- ; WPA, WPA2, WPA3, WPA3 Mixed; 802.1x; AES &TKIP
	2
	5

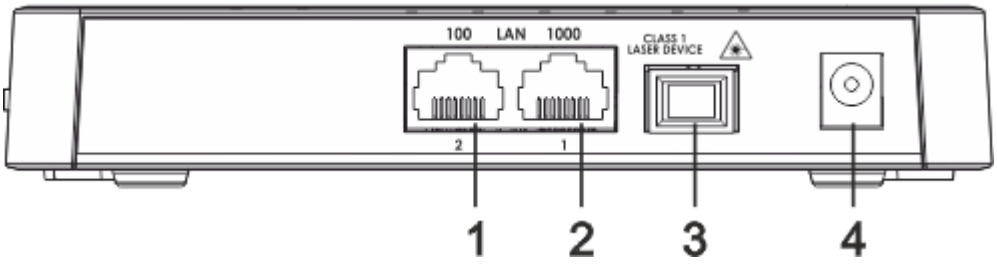
	web-
	Telnet, TR-069, LI, OMCI

	OMCI, TR-069, HTTP

	12 , 0,5
	6
	+5 +40 °
	80 %
(× ×)	147 × 24 × 110
	0,25
	5

, 147 × 24 × 110 .

NTU-52W 2.



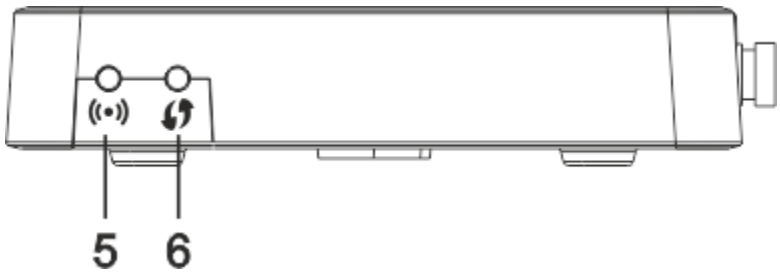
2 – NTU-52W

NTU-52W , 2.

2 – NTU-52W

1	***LAN 10/100***	RJ-45 10/100BASE-T
2	***LAN 10/100/1000***	RJ-45 10/100/1000BASE-T
3	***PON***	SC () PON GPON
4	***12V***	

NTU-52W 3.



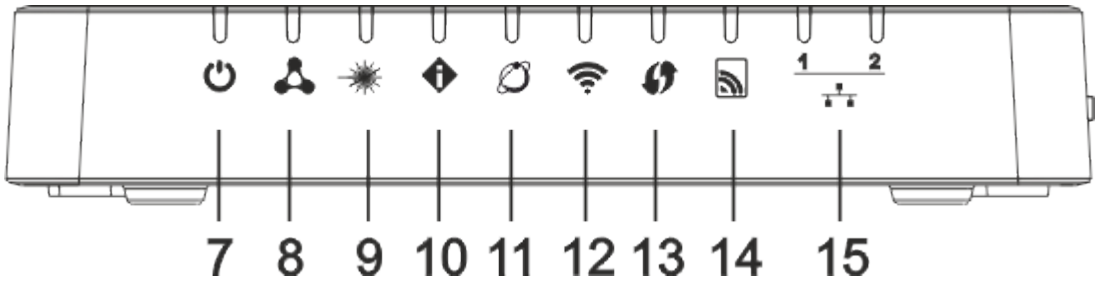
3 – NTU-52W

, 3.

3 – NTU-52W

5		/ Wi-Fi
6		Wi-Fi

NTU-52W 4.



4 – NTU-52W

, . 4.

4 – NTU-52W

7	–		
8	–		
			,
9	–		/ OLT
			OLT
			OLT
10	–		OLT
			OLT
11	–		IP- WAN-
			IP- WAN-
12	– *Wi-Fi*		Wi-Fi
			Wi-Fi
			Wi-Fi
13	– *WPS*		WPS
14	– *Wi-Fi*		
15	– *1..2 – Ethernet-*		
			10/100 /

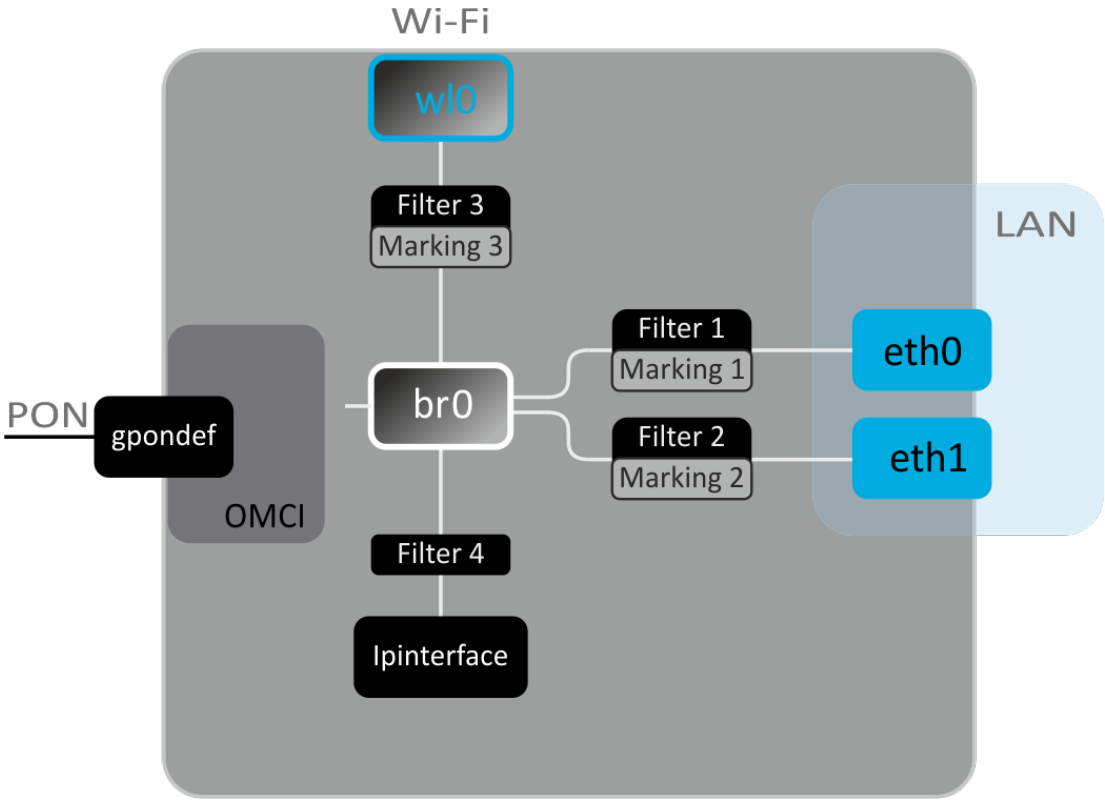
			1000 /
		/	

/_

«F» . *«F»* 5 , . . IP-: *LAN – 192.168.1.1, – 255.255.255.0.* LAN 1 LAN 2.

NTU-52W :

- NTU-52W;
- 220/12 0,5 ;
- ;
- .



5 –

:

- **- (SFF-)** – ;
- **(PON-)** – Ethernet GPON;
- **Wi-Fi** – .

() (5):

- Br0;
- eth0…1;
- wl0;
- IPInterface1.

br0 LAN .

eth0..1 Ethernet- RJ-45 , STB . **br0**.

wl0 – Wi-Fi 2.4 .

Filter Marking (**br0**). , **Filter** , **Marking** – .

IPInterface , IP- , DHCP, .

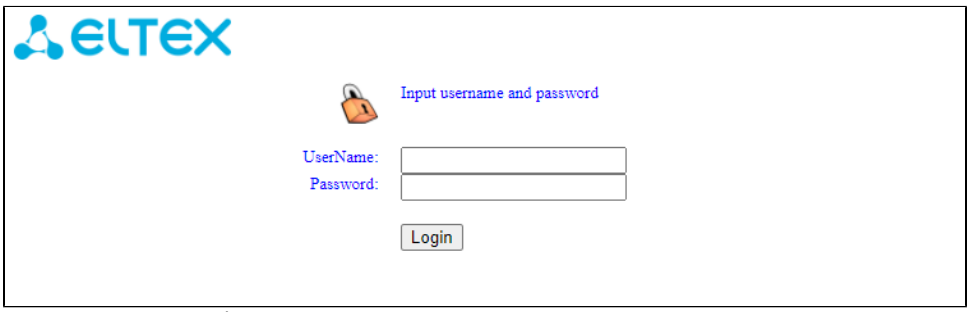
web-.

, web-:

1. web- (- web-), , Firefox, Google Chrome.
2. IP- .

> IP- : *192.168.1.1*, : *255.255.255.0*

:

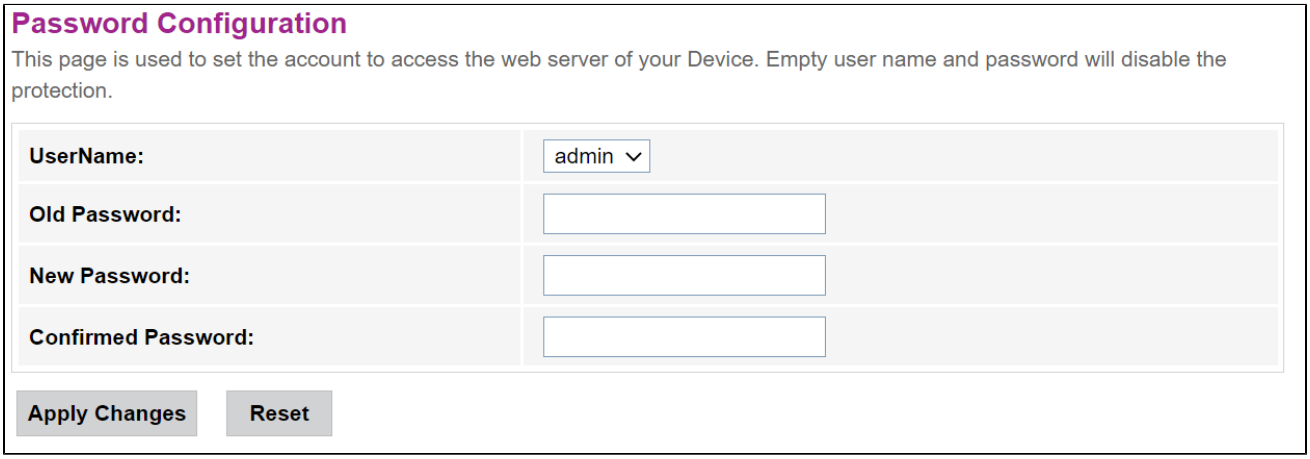


3. «UserName» «Password».

> *user*, *user*.

4. «Login». web- .

. «Admin», «Password», «New Password» «Confirmed password» .



web-

.

3 :

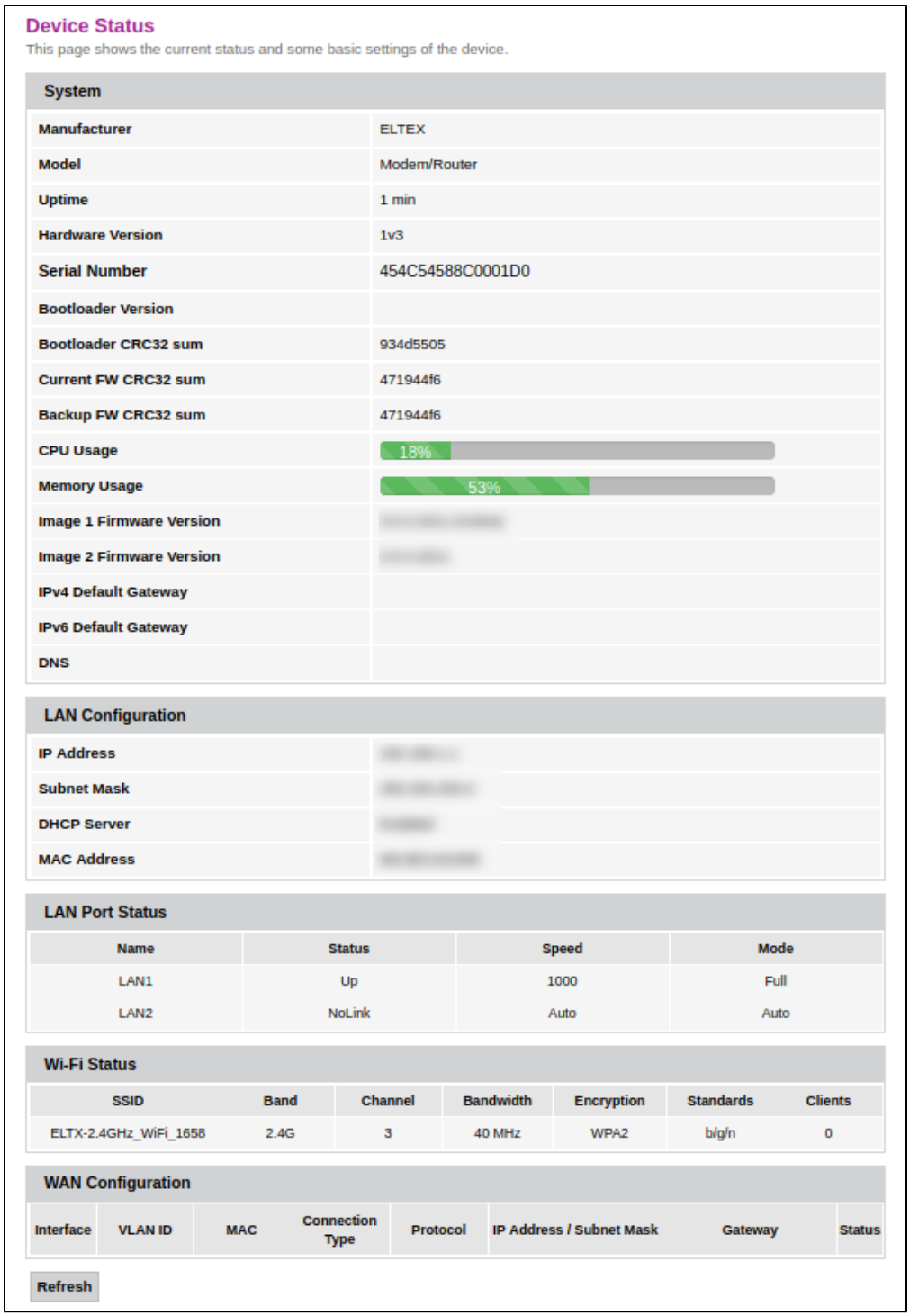
1. .
2. .
3. .

«Status».

«Device status».

, LAN WAN.

Status Device status



System

- *Manufacturer* – ;
- *Model* – ;
- *Uptime* – ;
- *Hardware Version* – ;
- *Serial Number* – ;
- *Bootloader Version* – ;
- *Bootloader CRC32 sum* – ;
- *Current FW CRC32 sum* – ;
- *Backup FW CRC32 sum* – ;
- *CPU Usage* – CPU;
- *Memory Usage* – ;
- *Image 1 Firmware Version (Active)* – ;
- *Image 2 Firmware Version* – ;

- *IPv4 Default Gateway* – IPv4;
- *IPv6 Default Gateway* – IPv6;
- *DNS* – DNS-.

LAN Configuration

- *IP Address* – IP- ;
- *Subnet Mask* – ;
- *DHCP Server* – DHCP-;
- *MAC Address* – MAC- .

LAN Port Status

- *Name* – LAN-;
- *Status* – LAN-;
- *Speed* – ;
- *Mode* – (half-duplex/full-duplex/auto).

Wi-Fi Status

- *SSID* – ;
- *Band* – , , ;
- *Channel* – ;
- *Bandwidth* – ;
- *Encryption* – ;
- *Standarts* – ;
- *Clients* – .

WAN Configuration

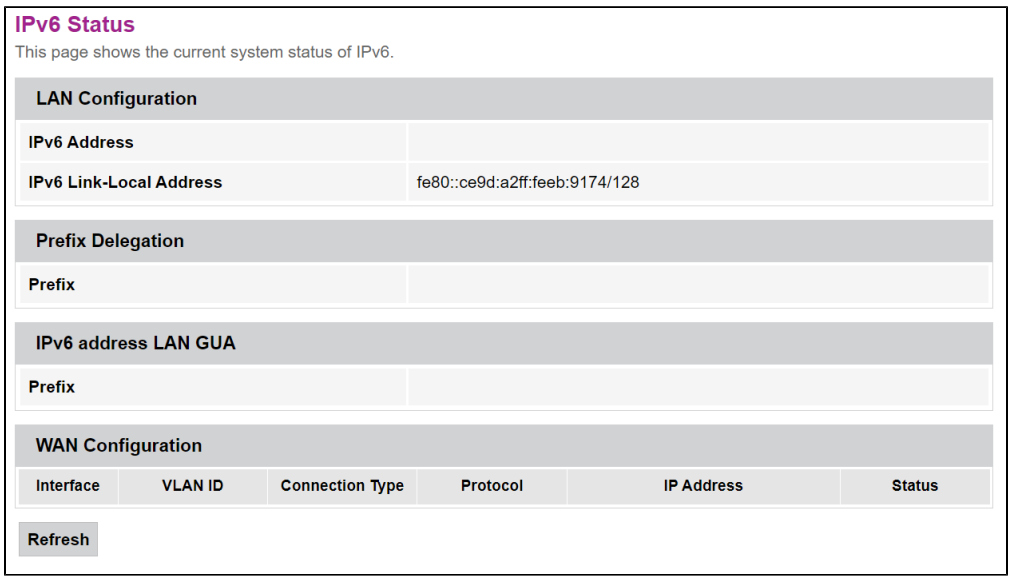
- *Interface* – ;
- *VLAN ID* – VLAN ID ;
- *MAC* – MAC- ;
- *Connection Type* – ;
- *Protocol* – ;
- *IP Address/Subnet Mask* – IP-/ ;
- *Gateway* – ;
- *Status* – .

«Refresh».

«IPv6 Status». IPv6

IPv6.

Status IPv6



IPv6 Status

This page shows the current system status of IPv6.

LAN Configuration	
IPv6 Address	
IPv6 Link-Local Address	fe80::ce9d:a2ff:feeb:9174/128

Prefix Delegation	
Prefix	

IPv6 address LAN GUA	
Prefix	

WAN Configuration

Interface	VLAN ID	Connection Type	Protocol	IP Address	Status

Refresh

LAN Configuration

- *IPv6 Address* – IPv6-;
- *IPv6 Link-Local Address* – IPv6-.

Prefix Delegation

- *Prefix* – IPv6-.

IPv6 address LAN GUA

- *Prefix* – .

WAN Configuration

- *Interface* – ;
- *VLAN ID* – VLAN ID ;
- *Connection Type* – ;
- *Protocol* – ;
- *IP Address* – IP- ;
- *Status* – .

«Refresh».

«PON».

PON-.

Status PON

PON Status

This page shows the current system status of PON.

PON Status	
Temperature	53.945313 C
Voltage	3.339200 V
Tx Power	No signal
Rx Power	No signal
Bias Current	6.250000 mA

GPON Status	
ONU State	O1
ONU ID	255
LOID Status	Initial Status

Refresh

PON Status

- *Temperature* – ;
- *Voltage* – ;
- *Tx Power* – ;
- *Rx Power* – ;
- *Bias Current* – .

GPON Status

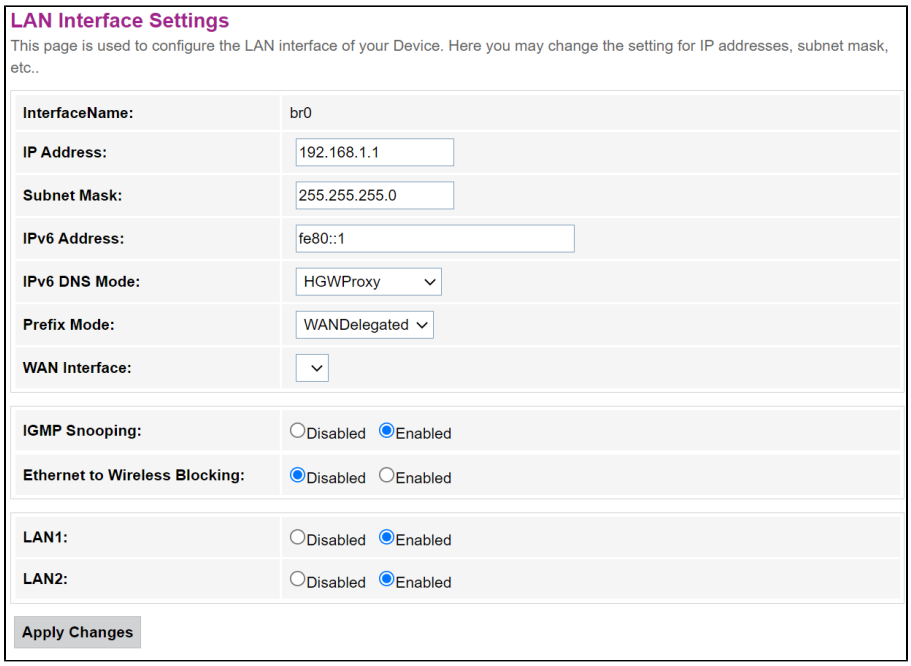
- *ONU State* – ONU;
- *ONU ID* – ONU ID;
- *LOID Status* – LOID.

«Refresh».

«LAN». LAN

LAN.

LAN



- *Interface name* – ;
- *IP Address* – IP-
- *Subnet Mask* – ;
- *IPv6 Address* – IPv6-;
- *IPv6 DNS Mode* – :
  - *HGWProxy* – DNS IPv6;
  - *WANConnection* – WAN- DNS-;
  - *Static* – DNS- (IPv6 DNS1, IPv6 DNS2).
- *Prefix Mode* – Prefix (WAN-):
  - *WANDelegated* – , ;
  - *Static* – Prefix.
- *WAN Interface* – WAN-, WANDelegated.
- *IGMP Snooping (Enabled/Disabled)* – / IGMP Snooping;
- *Ethernet to Wireless Blocking (Enabled/Disabled)* – / ;
- *LAN1/LAN2 (Enabled/Disabled)* – LAN-.

«Apply Changes».

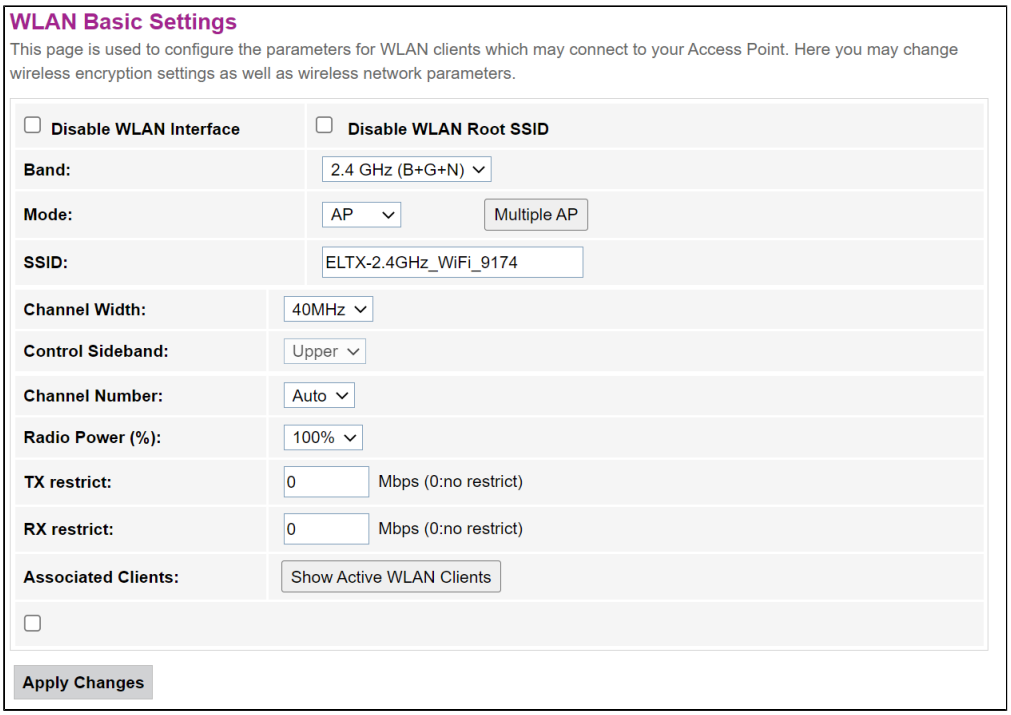
«WLAN».

.

«Basic settings».

WLAN.

WLAN Basic Settings



- *Disable WLAN Interface* – ;
- *Disable WLAN Root SSID* – ;
- *Band* – Wi-Fi;
- *Mode* – (AP/Client);
- *SSID (Service Set Identifier)* – ( );

> (SSID) ELTX-2.4GHz_WiFi-aaaa, – 4 WAN MAC. WAN MAC . (2.4).

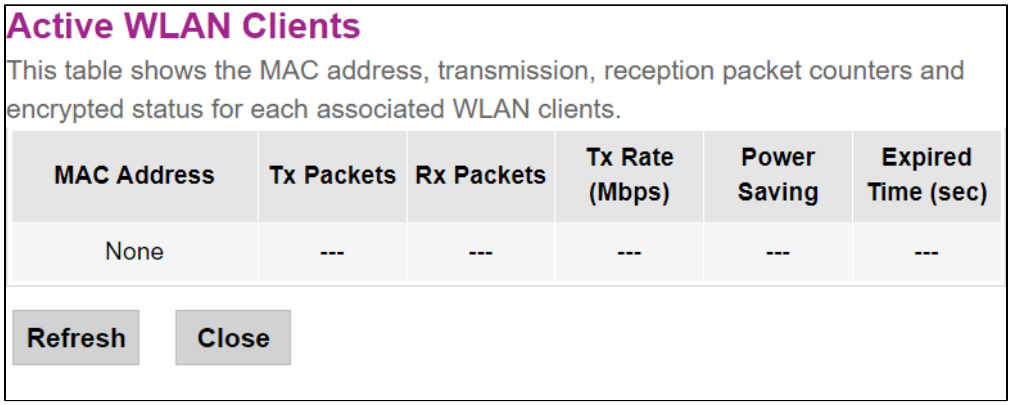
- *Channel Width* – 20, 40 (Wi-Fi: 2.4 (N), 2.4 (G+N), 2.4 (B+G+N));
- *Control Sideband* – , (Lower Upper) (Wi-Fi: 2.4 (N), 2.4 (G+N), 2.4 (B+G+N));
- *Channel Number* – :
  - *Auto* – .
- *Radio Power (%)* – ;
- *TX restrict* – ;
- *RX restrict* – ;
- *Associated Clients* – .

«Apply Changes».

WPA2-PSK , . 8 63 ASCII. .

«Show Active WLAN Client» WLAN.

WLAN Basic settings Show Active WLAN Client



- *MAC Address* – MAC- ;
- *Tx Packets* – ;

- *Rx Packets* – ;
- *Tx Rate (Mbps)* – , /;
- *Power Saving* – ;
- *Expired Time (sec)* – , .

«Refresh», «Close».

«Advanced settings».

.

WLAN Advanced settings

WLAN Advanced Settings

These settings are only for more technically advanced users who have a sufficient knowledge about WLAN. These settings should not be changed unless you know what effect the changes will have on your Access Point.

Fragment Threshold:	2346 (256-2346)
RTS Threshold:	2347 (0-2347)
Beacon Interval:	100 (20-1024 ms)
DTIM Period:	1 (1-255)
Data Rate:	Auto
Preamble Type:	Long Preamble Short Preamble
Broadcast SSID:	Enabled Disabled
Client Isolation:	Enabled Disabled
Protection:	Enabled Disabled
Aggregation:	Enabled Disabled
Short GI:	Enabled Disabled
TX beamforming:	Enabled Disabled
Multicast to Unicast:	Enabled Disabled
WMM Support:	Enabled Disabled
802.11k Support:	Enabled Disabled

Apply Changes

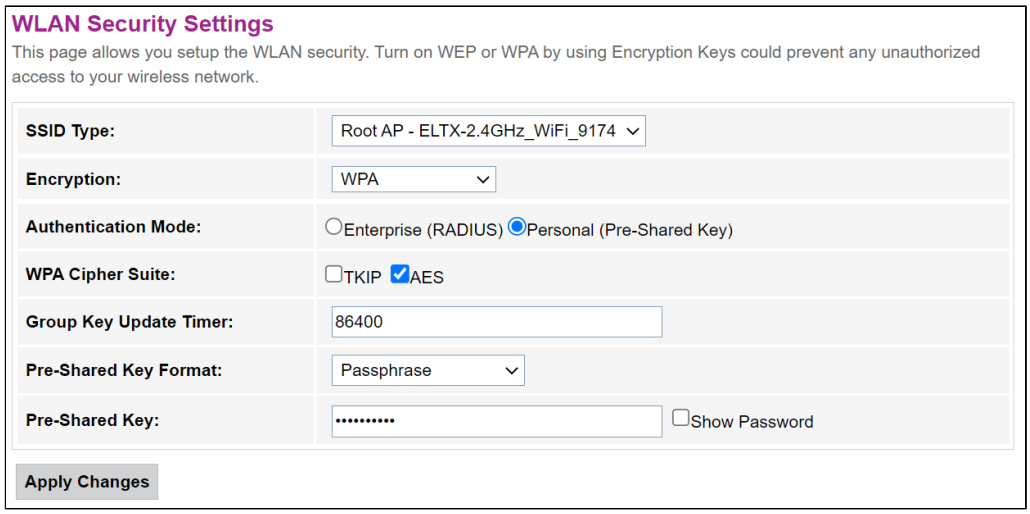
- *Fragment Threshold* – . , ;
- *RTS Threshold* – , RTS, RTS/CTS (/) ;
- *Beacon Interval* – , , ;
- *DTIM Period* – ;
- *Data rate* – ;
- *Preamble Type* – : (*Long Preamble*)| (*Short Preamble*);
- *Broadcast SSID (Enable/Disabled)* – SSID (Disabled SSID);
- *Client Isolation* (*Enable/Disabled)* – / ;
- *Protection (Enable/Disabled)* – / 802.11n protection;
- *Aggregation (Enable/Disabled)* – / ;
- *Short GI* (*Enable/Disabled)* – / ;
- *TX beamforming* (*Enable/Disabled)* – / ;
- *Multicast to Unicast* (*Enable/Disabled)* – / multicast unicast;
- *WMM Support* (*Enable/Disabled)* – / Wi-Fi Multimedia;
- *802.11k Support (Enable/Disabled)* – / Radio Resource managment .

«Apply Changes».

«Security».

. , WPS.

WLAN Security



- *SSID Type* – SSID;
- *Encryption* – :
  - *NONE ()* – ;
  - *WEP* – WEP;
  - *WPA/WPA2/WPA2 Mixed/WPA3/WPA3 Mixed* – WPA/WPA2/WPA2 Mixed/WPA3/WPA3 Mixed.

WEP :

- *802.1x Authentication* – 802.1x (RADIUS, WEP-);
- *Authentication* – :
  - *Open system* – ;
  - *Shared Key* – ;
  - *Auto* – .
- *Key Length ( )* – 64 128 ;
- *Key Format ( )* – ASCII HEX;
- *Encryption Key ( )* – 10 16- 5 ASCII1 64- . 26 16- , 13 ASCII 128- .

WPA/WPA2/WPA2 Mixed, :

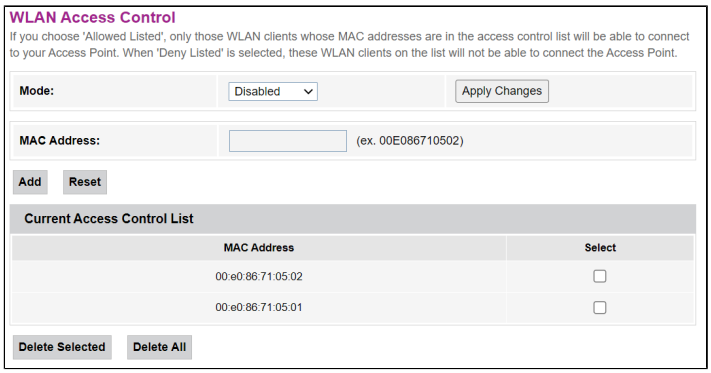
- *Authentication Mode* – Enterprise (RADIUS) Personal (Pre-Shared Key). Enterprise (RADIUS) :
  - *RADIUS Server IP Address* – IP- RADIUS-;
  - *RADIUS Server Port* – RADIUS-. 1812;
  - *RADIUS Server Password* – RADIUS-;
- *IEEE 802.11w* – ;
  - *None* – ;
  - *Capable* – ;
  - *Required* – .
- *SHA256 (Enable/Disable)* – / SHA256.
- *WPA Cipher Suite* – WPA *TKIP AES*;
- *Group Key Update Timer* – ;
- *Pre-Shared Key Format* – ASCII HEX;
- *Pre-Shared Key* – .

«Show Password». «Apply Changes».

«Access control».

MAC-. MAC- *Current Access Control List* – . *«Allowed Listed»,* MAC-, *Current Access Control List.* *«Deny Listed»* MAC-, , *Current Access Control List.* «Apply Changes».

WLAN Access control



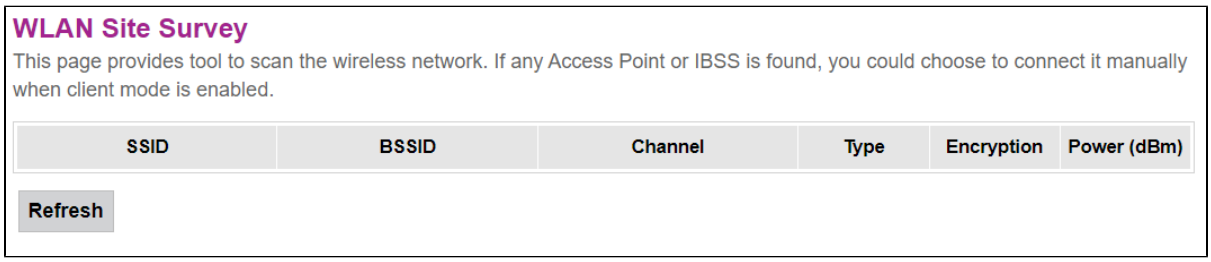
- *Mode* – MAC-:
  - *Disabled* – ;
  - *Allowed Listed* – ( );
  - *Deny Listed* – ( ).
- *MAC Address* – MAC- . , «Add», — «Reset».

, «Delete Selected», , «Delete All».

«WiFi radar».

, IBSS.

WLAN WiFi radar



:

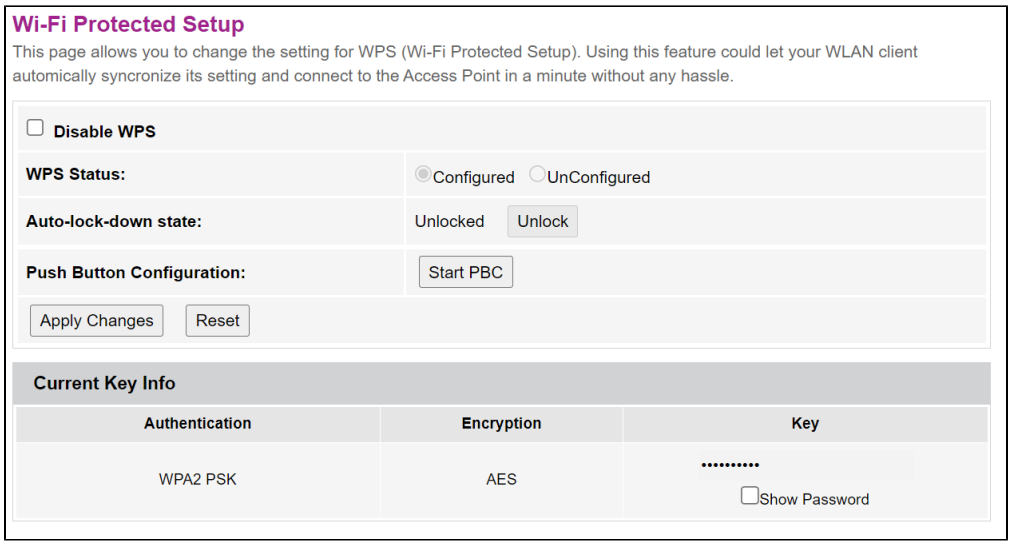
- *SSID* – ;
- *BSSID* – MAC- ;
- *Channel* – ;
- *Type* – (AP, Client – ,);
- *Encryption* – ;
- *Power (dBm)* – .

«Refresh».

«WPS». Wi-Fi

WPS (Wi-Fi Protected Setup, Wi-Fi).

WLAN WPS



- *Disable WPS* – WPS;
- *Push Button Configuration* – WPS .

«Show Password». «Apply Changes».

«Status». WLAN

WLAN.

WLAN Status

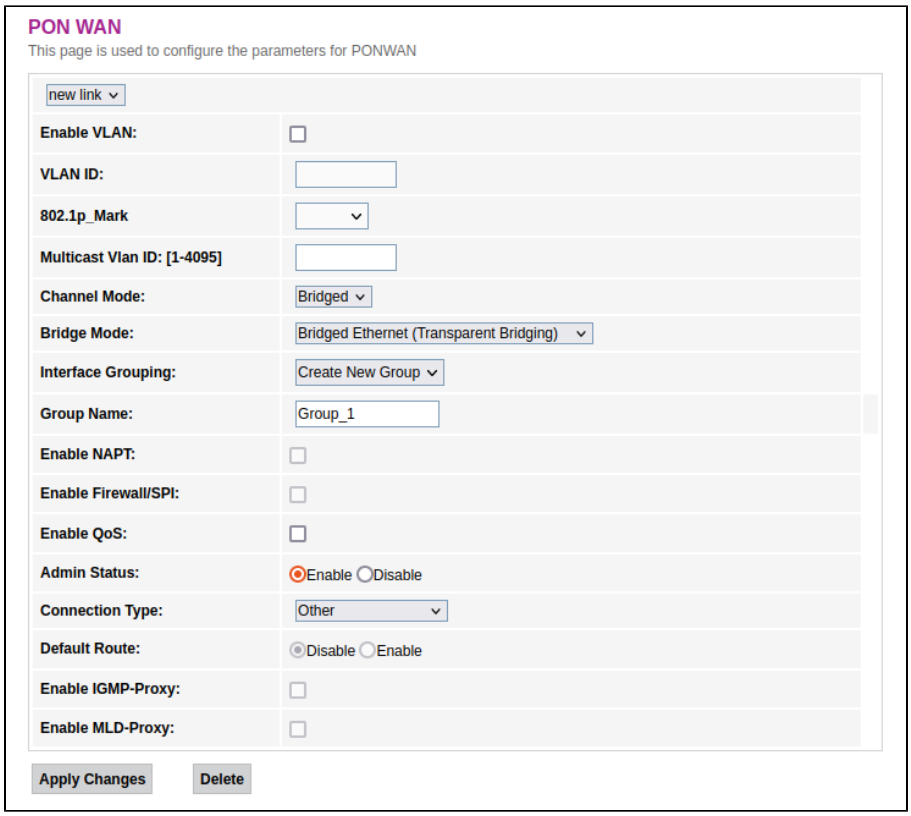
- *Mode* – AP- ;
- *Band* – , , ;
- *SSID* – ;
- *Channel Number* – ;
- *Channel Width* – ;
- *Encryption* – ;
- *BSSID* – MAC- ;
- *Associated Clients* – .

«WAN».

«PON WAN». PON WAN

PON WAN.

WAN PON WAN



- *Enable VLAN* – VLAN;
- *VLAN ID* – VLAN;
- *802.1p_Mark* – 802.1p;
- *Channel Mode* – VLAN;
  - *Bridged* – ;
  - *IPoE* – DHCP;
  - *PPPoE* – point-to-point Ethernet.
- *Interface Grouping* – ;
- *Group name* – ;
- *Enable NAPT* – NAPT;
- *Enable QoS* – ;
- *Admin Status (Enable/Disable)* – / ;
- *Connection Type* – , WAN;
- *Default Route (Enable/Disable)* – / ;
- *Enable IGMP-Proxy* – IGMP;
- *Enable MLD-Proxy* – MLD.

«Apply Changes», – «Delete».

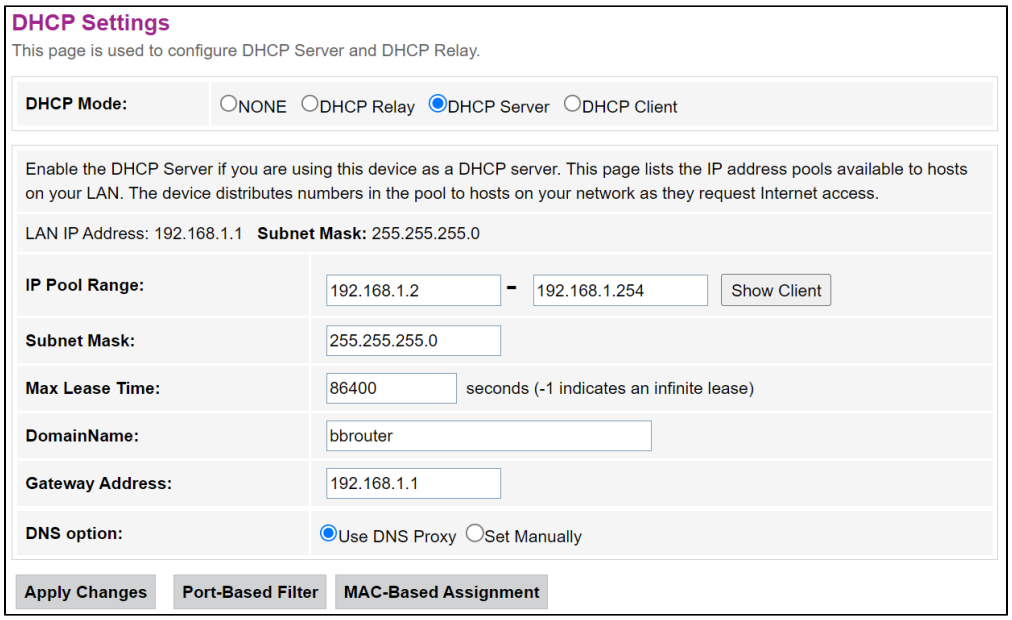
«Services».

«Service»

«DHCP Setting». DHCP

DHCP- DHCP-.

Services DHCP (Server)



- *DHCP Mode* – :
  - *NONE* – DHCP ;
  - *DHCP Relay* – DHCP-;
  - *DHCP Server* – DHCP-;
  - *DHCP Client* – DHCP-.
- *IP Pool Range* – , ;
- *Show Client* – , . DHCP, DHCP-;
- *Subnet Mask* – ;
- *Max Leas Time* – , -1 ;
- *DomainName* – ;
- *Gateway Address* – ;
- *DNS option* – DNS:
  - *Use DNS relay* – DNS ONT ONT;
  - *Set manually* – DNS .

- *DHCP Server IP Address* – IP- DHCP.

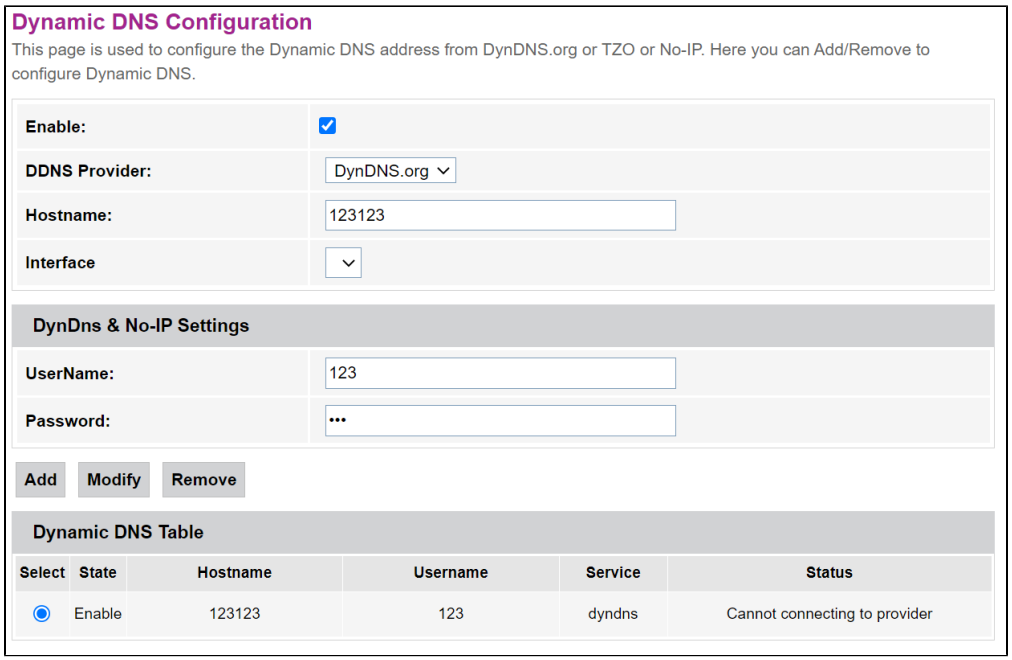
«Apply Changes». «Port-Based Filter» «MAC-Based Assignment» MAC .

«Dynamic DNS».

DNS ( ) DNS- ( ) . (, , NTU-52W) IP-. IP-, IPCP PPP- DHCP.

DNS , IP- DHCP, DNS-.

Services Dynamic DNS



- *Enable* – DHCP- (IP-);
- *D-DNS Provider* – D-DNS (): DynDNS.org, No-IP.com;
- *Custom* – , . (*Hostname*) (*Interface*) .

DynDns/No-IP Settings:

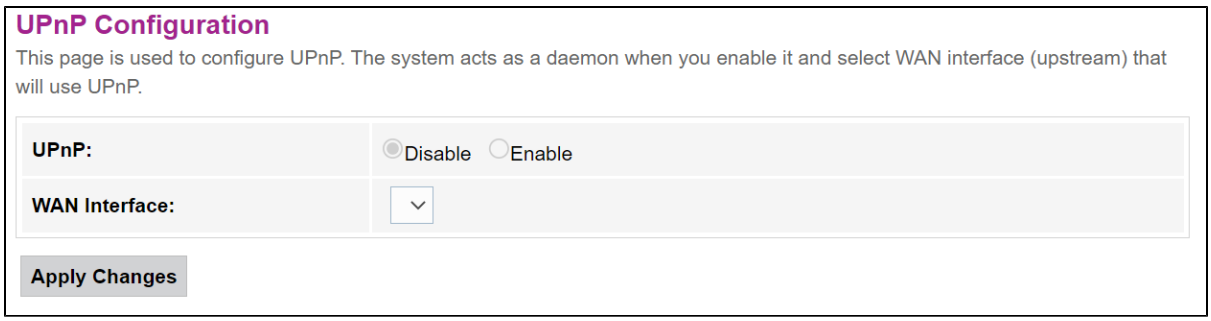
- *UserName* – ;
- *Password* – , D-DNS.

«Dynamic DNS Table» DNS . «Add». / , «Modify»/«Remove» .

«UPnP».

Universal Plug and Play (UPnP™). UPnP , .

Services UPnP



UPnP NAT WAN-.

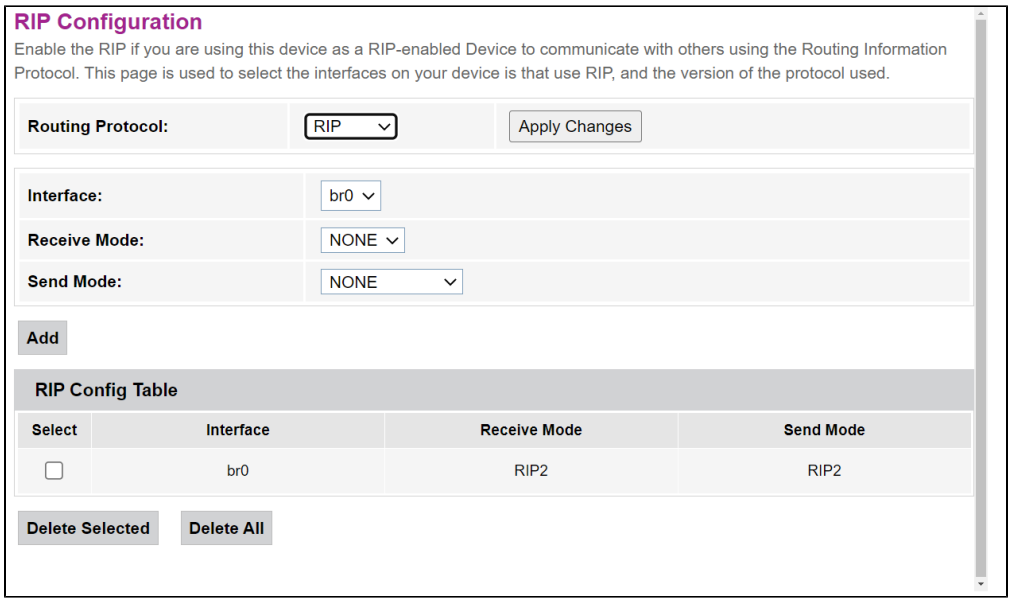
- *UPnP (Enable/Disable)* – / UPnP;
- *WAN Interface* – WAN-, UPnP.

«Apply Changes».

«RIP».

, RIP . RIP, RIP RIP.

Services RIP



- *RIP (Enable/Disable) – l* RIP.

«Apply Changes».

- *Interface* – , RIP;
- *Receive Mode* – (NONE, RIP1, RIP2, both);
- *Send Mode* – (NONE, RIP1, RIP2, RIP1 COMPAT).

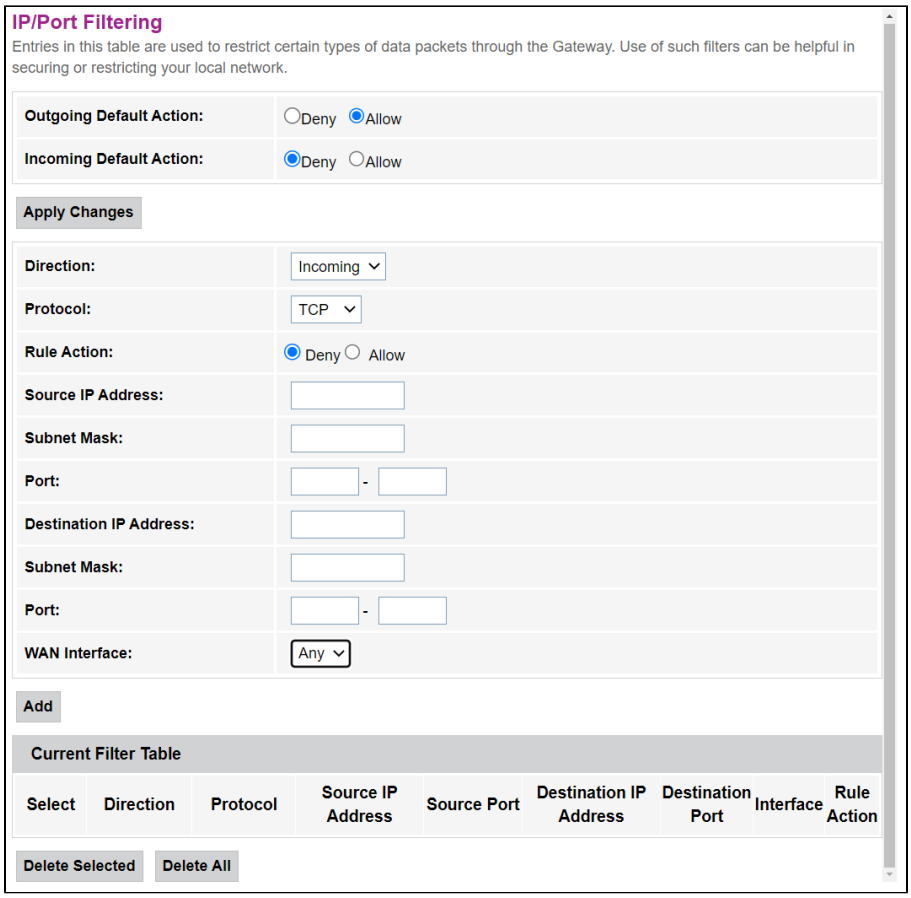
RIP *«RIP Config Table»*. «Delete All», , «Delete Selected».

«Firewall».

«IP/Port Filtering».

. IP- IP- . .

Services Firewall IP/Port Filtering



- *Outgoing Default Action* (*Deny\Allow*) – ;
- *Incoming Default Action (Deny\Allow)* – .

«Apply Changes».

«Add»:

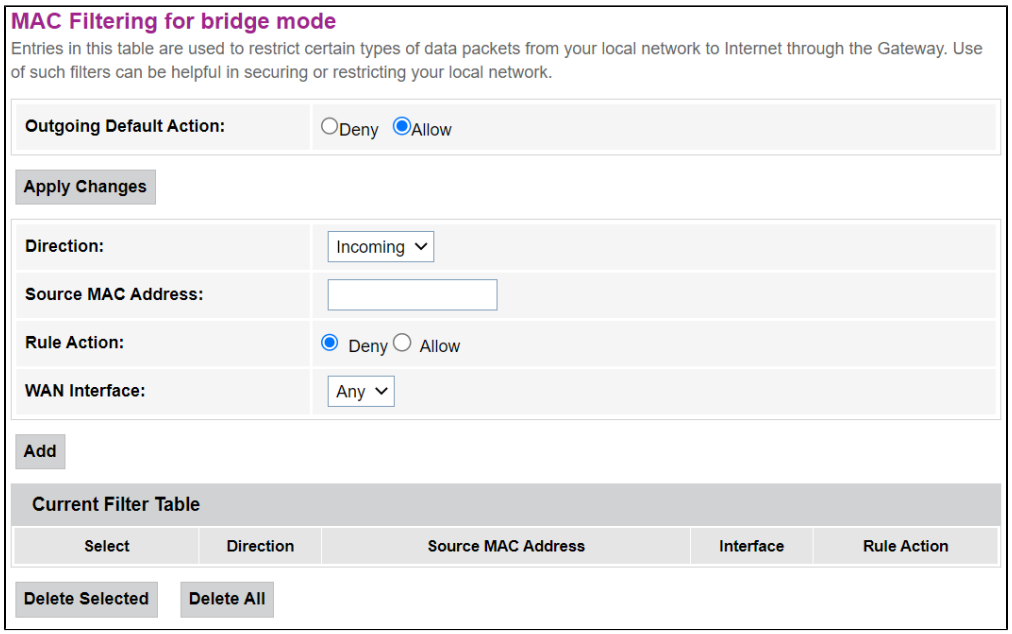
- *Protocol* – ;
- *Rule Action (Deny/Allow)* – (/);
- *Source IP Address* – IP- ;
- *Subnet Mask* – ;
- *Port* – ;
- *Destination IP Address* – IP- ;
    - *Subnet Mask* – ;
    - *Port* – .
- *WAN Interface* – .

«Current Filter Table». . «Delete selected», – «Delete All».

«MAC Filtering». MAC-

MAC-, MAC- . «Apply Changes».

Services Firewall MAC Filtering



- *Outgoing Default Action Deny/Allow –* .

«Apply Changes».

«Add»:

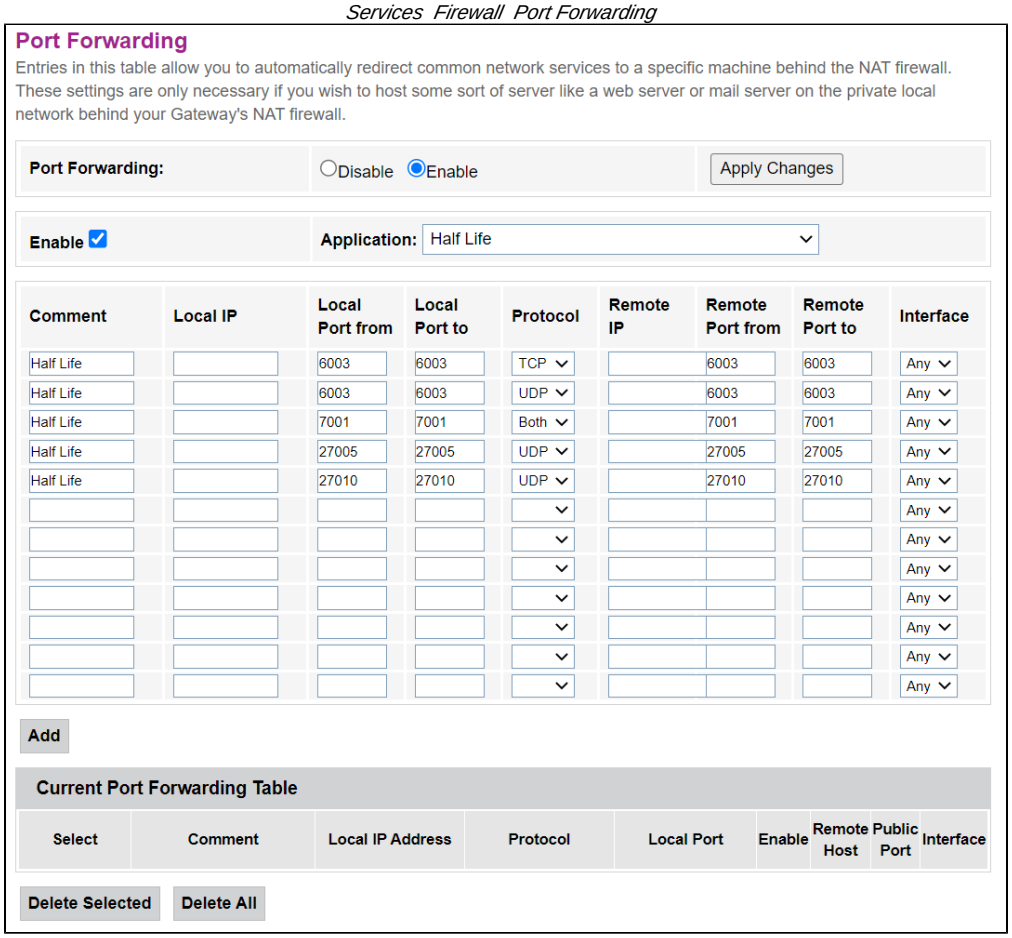
- *Source MAC Address –* MAC-, /;
- *WAN Interface –* .

«Current Filter Table». «Rule» («Allow» – «Deny» –). «Delete Selected», «Delete All».

«Port Forwarding».

«Current Port Forwarding Table» . NAT. , - , - , NAT . «Apply Changes».

Services Firewall Port Forwarding



«Current Port Forwarding Table» Enable :

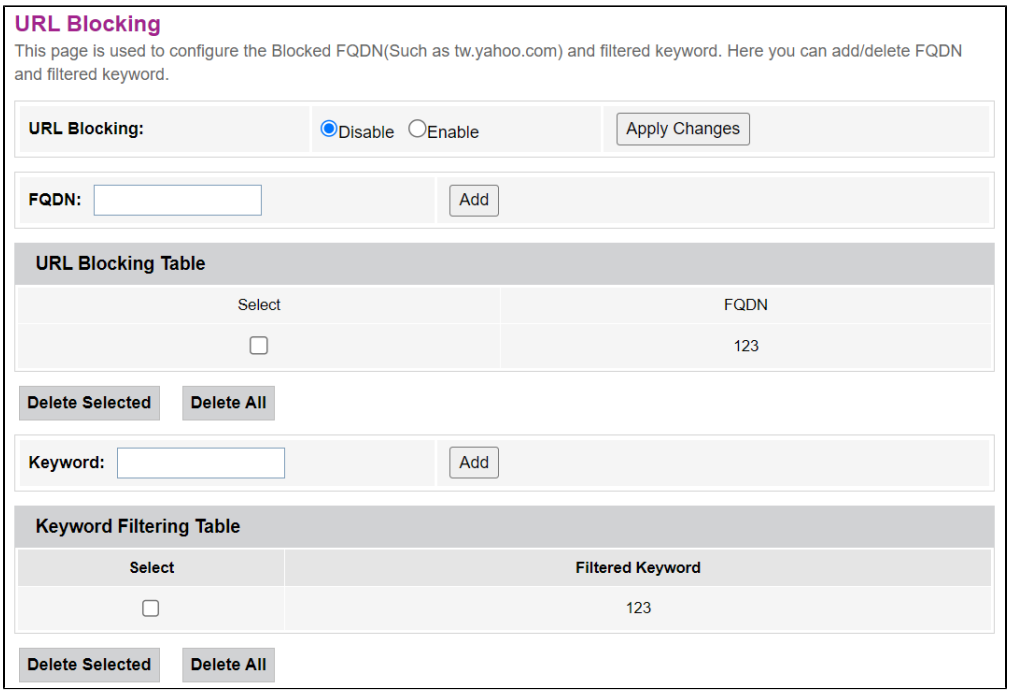
- *Port Forwarding (Enable/Disable) – /* ;
- *Application –* ;
- *Comment –* ;
- *Local IP –* IP-, ;
- *Local port from/to –* ;
- *Protocol –* (TCP, UDP);
- *Remote port from/to –* . *Remote port to* ;
- *Interface –* .

«Add». «Delete Selected», «Delete All».

«URL Blocking».

URL . / URL- . / FQDN (Fully Qualified Domain Name) «Add», . *«URL Blocking Table» «Keyword Filtering Table»,* URL- , «Delete Selected». «Delete All»

Services Firewall URL Blocking



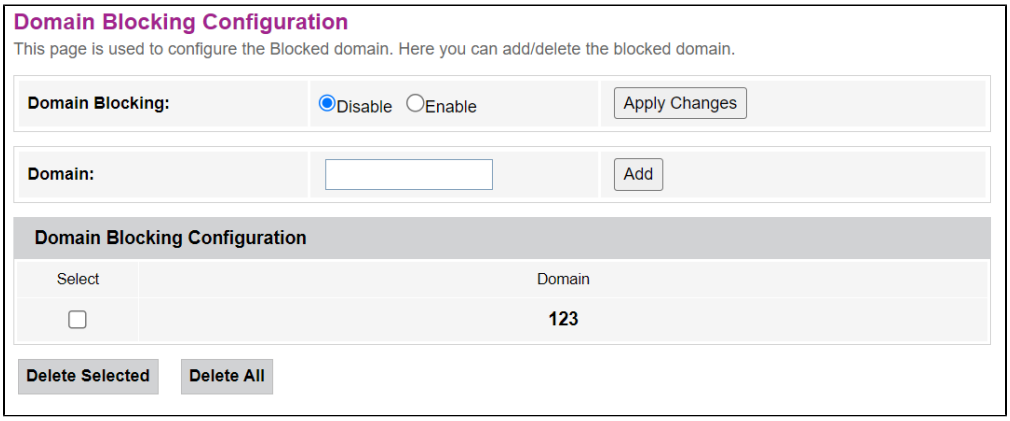
- *URL Blocking (Enable/Disable) – l* URL-Blocking;
- *FQDN (Fully Qualified Domain Name) –* ;
- *Keyword –* .

«Apply Changes».

«Domain Blocking».

.

Services Firewall Domain blocking



Enable, *Domain* «Add».

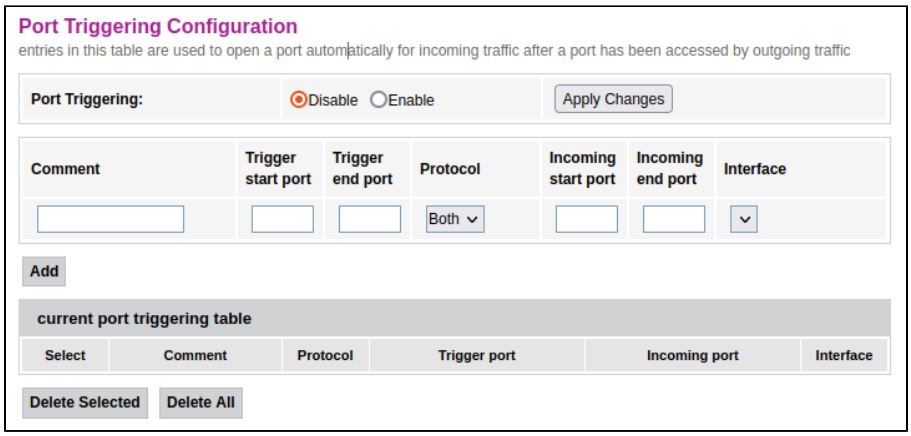
- *Domain Blocking (Enable/Disable) – l* ;
- *Domain –* .

«Apply Changes». *«Domain BlockingConfiguration»,* «Delete Selected», «Delete All».

«Port Triggering».

, .

Services Firewall Port Triggering



«current port triggering table» «Enable» :

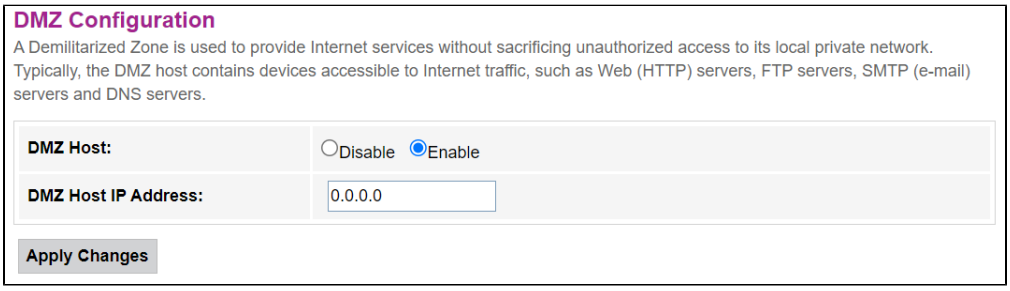
- *Comment* – ;
- *Trigger start port* – , Incoming;
- *Trigger end port* – , Incoming;
- *Protocol* – ;
- *Incoming start port* – , Trigger;
- *Incoming end port* – , Trigger;
- *Interface* – .

«Apply Changes». «Add». , «Delete Selected», — «Delete All».

«DMZ».

IP- «DMZ Host IP Address» , *Port Forwarding*, DMZ- (,).

Services Firewall DMZ



- *DMZ Host (Enable/Disable)* – / ;
- *DMZ Host IP Address* – IP-.

«Apply Changes».

«Advance».

«Advance»

«ARP Table». ARP

MAC-. ARP ARP-, . Internet- . 5 .

Advance Advance ARP table

User List

This table shows a list of learned MAC addresses.

IP Address	MAC Address
192.168.1.2	b4-2e-99-bf-71-96

Refresh

- *IP Address* – IP- ;
- *MAC Address* – - .

«Refresh».

«Bridging». Bridging

. MAC-, / 802.1d Spanning Tree.

Advance Advance Bridging

Bridging Configuration

This page is used to configure the bridge parameters. Here you can change the settings or view some information on the bridge and its attached ports.

Ageing Time:	7200 (seconds)
802.1d Spanning Tree:	Disabled Enabled

Apply Changes Show MACs

- *Ageing Time* – ();
- *802.1d Spanning Tree (Enable/Disable)* – / 802.1d Spanning Tree.

«Apply Changes».

, «Show MACs».

Advance Advance Bridging Show MACs

Bridge Forwarding Database

This table shows a list of learned MAC addresses.

Port	MAC Address	Is Local?	Ageing Timer
1	b4-2e-99-bf-71-96	no	0.00

Refresh Close

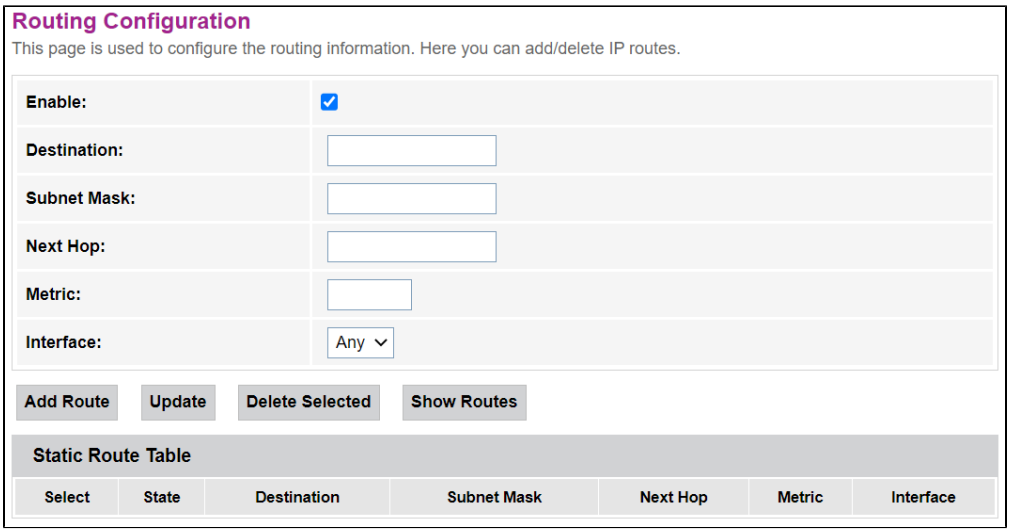
- *Port* – ;
- *MAC Address* – MAC-;
- *Is Local?* – ;
- *Ageing Timer* – .

«Refresh», – «Close».

«Routing».

.

Advance Advance Routing



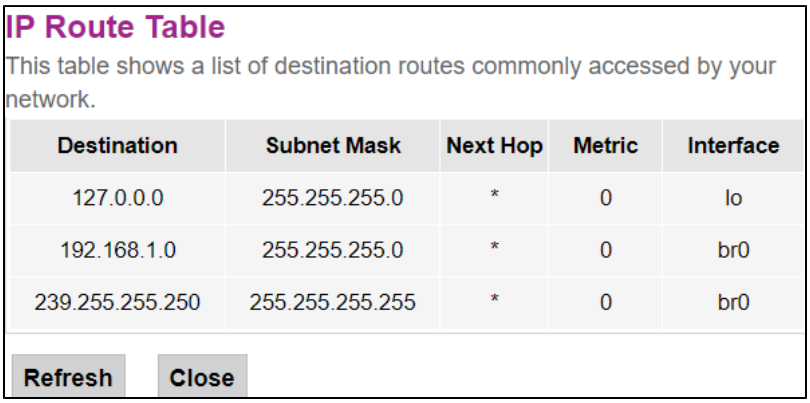
«*Enable*», «Add Route».

- *Enable* – ;
- *Destination* – ;
- *Subnet Mask* – ;
- *Next Hop* – ;
- *Metric* – ;
- *Interface* – .

«Static Route Table». «Update», «Delete Selected».

, «Show Routes», *«IP Route Table»*.

Advance Advance Routing Show Routes



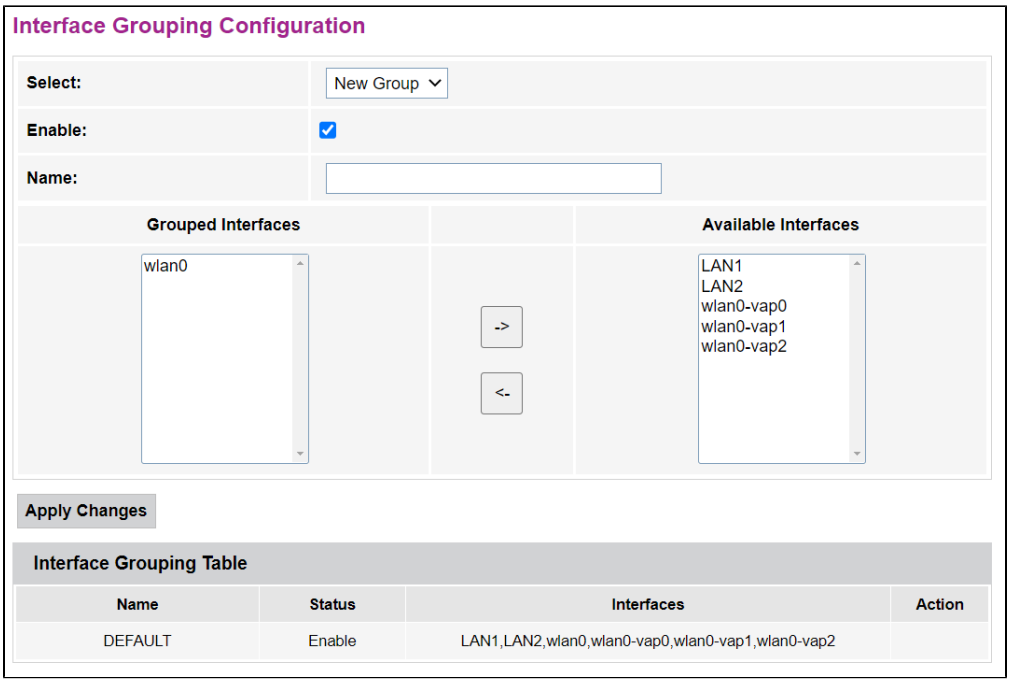
«Refresh», – «Close».

«Interface Grouping».

. . :

1. .
2. (Available Interface).
3. .
4. , «Apply Changes».

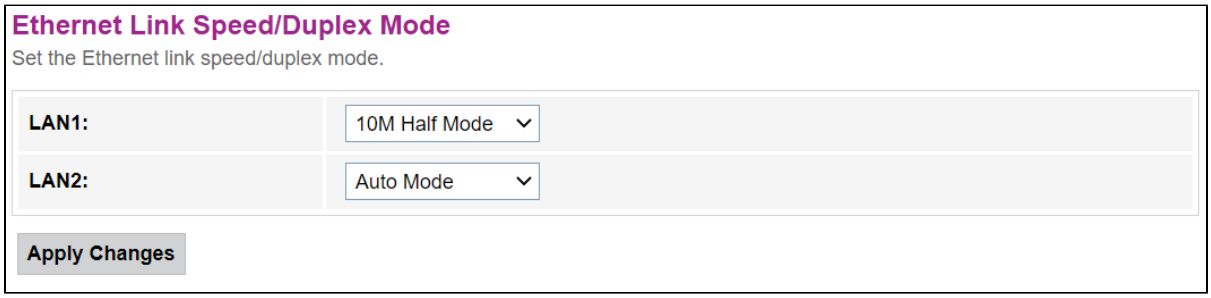
Advance Advance Interface Grouping



«Link mode». LAN-

LAN-. *LAN1/2 –* , *10M Half Mode, 10M Full Mode, 100M Half Mode, 100M Full Mode Auto Mode* ( ).

Advance Advance Link mode



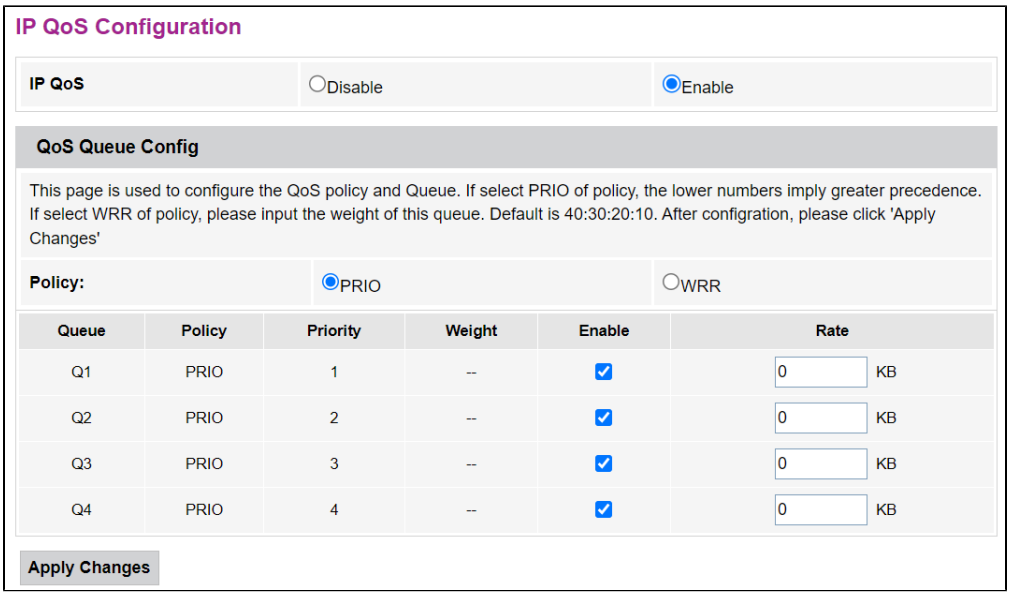
«Apply Changes».

«IP QoS». (QoS)

«QoS Policy». QoS-

QoS- .

Advance IP QoS QoS Policy



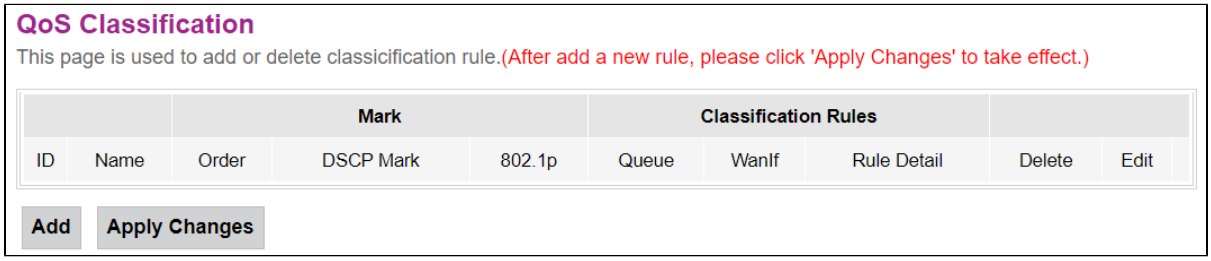
- *IP QoS (Enable/Disable) –* / QoS-;
- *Policy –* :
  - *PRIO –* PRIO . ;
  - *WRR –* WRR . 40:30:20:10.

«Apply Changes».

«QoS Classification».

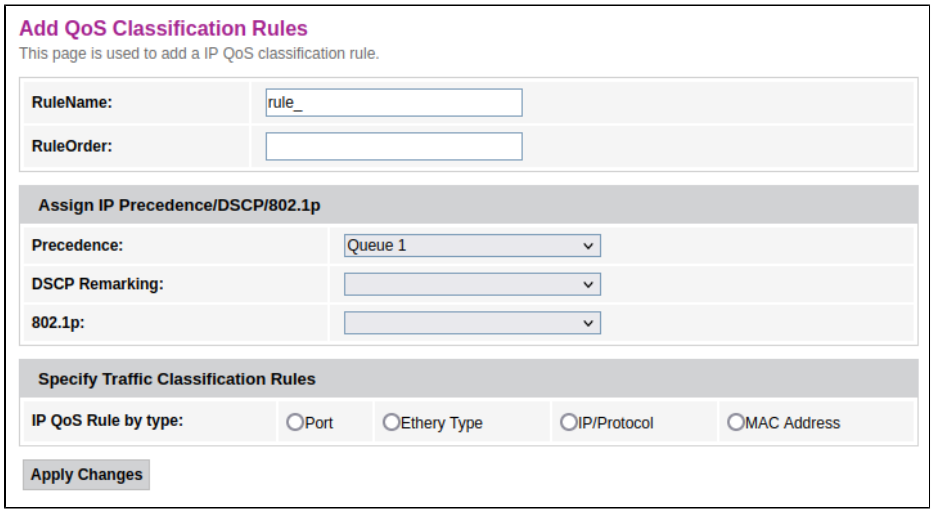
, .

Advance IP QoS QoS Classification



«Add» .

Advance IP QoS QoS Classification Add



- *RuleName* – ;
- *RuleOrder* – .

Assing IP Precedence/DSCP/802.1p – IP.

- *Precedence* – ;
- *DSCP* – IP-;
- *802.1p* – 802.1Q.

Specify Traffic Classification Rules – .

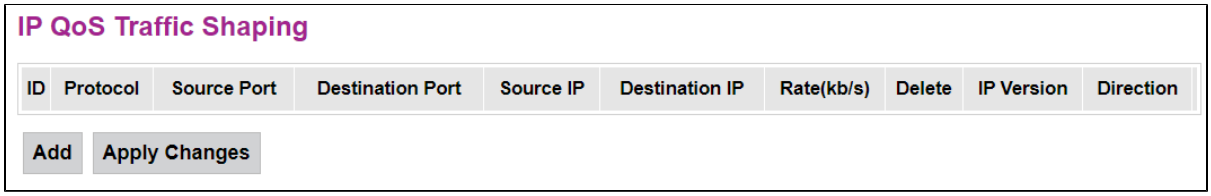
- *IP QoS Rule by type* – :
  - *Port* – ;
  - *Ethery Type* – Ethertype;
  - *IP/Protocol* – IP;
  - *MAC Address* – MAC-.

«Apply Changes».

«Traffic Shaping».

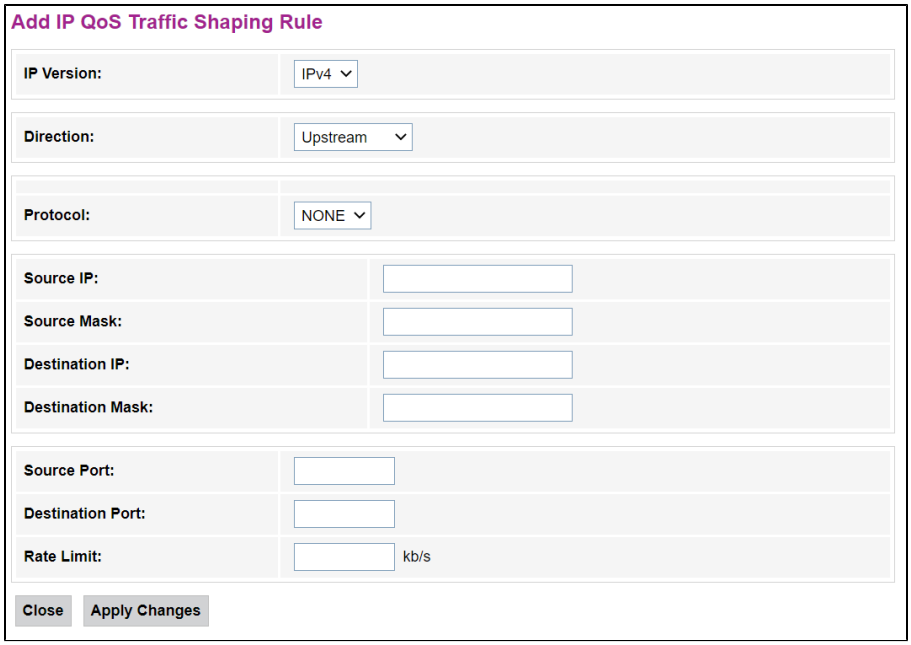
.

Advance IP QoS Traffic Shaping



«Add» .

Advance IP QoS Traffic Shaping Add



- *IP Version* – IP-;
- *Direction* – , ;
- *Protocol* – ;
- *Source IP* – IP- ;
- *Source Mask* – ;
- *Destination IP* – IP- ;
- *Destination Mask* – ;
- *Source Port* – ;
- *Destination Port* – ;
- *Rate Limit (kb/s)* – , /.

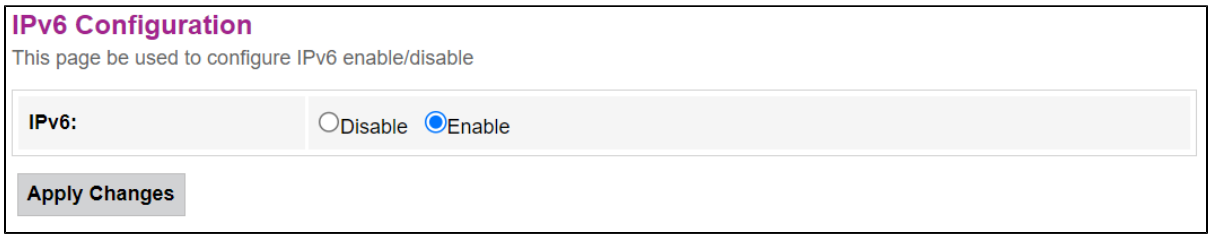
«Apply Changes», «Close».

«IPv6». IPv6

«IPv6 Enable/Disable». IPv6

/ IPv6-, *«Enable»/«Disable»*.

Advance IPv6 IPv6 Enable/Disable

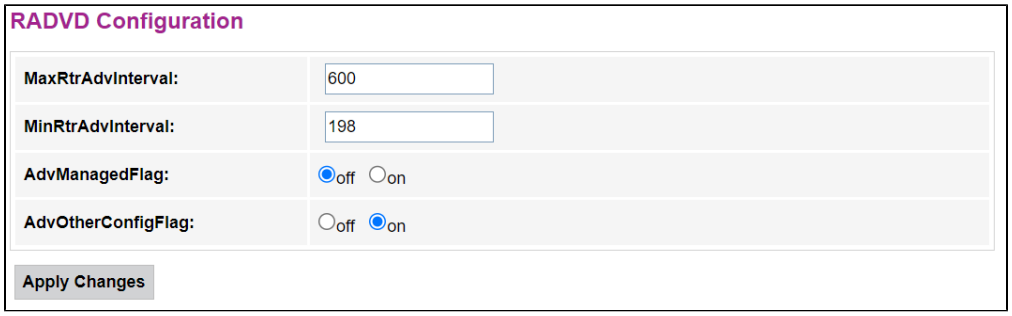


«Apply Changes».

«RADVD». RADVD

RADVD (Router Advertisement Daemon).

Advance IPv6 RADVD



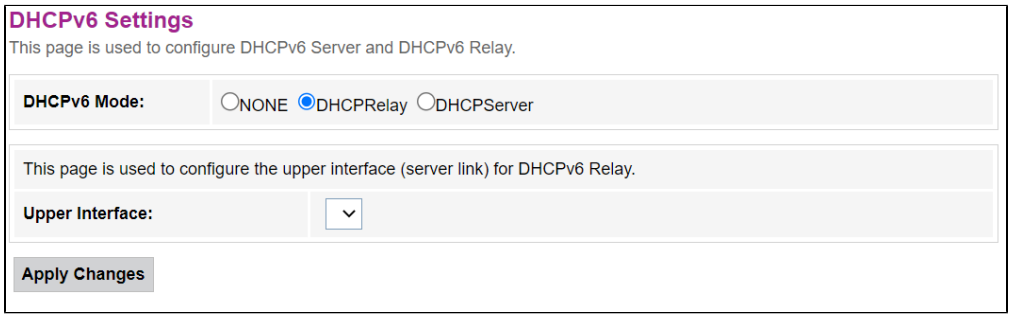
- *MaxRtrAdvInterval* – RA (Router Advertisement);
- *MinRtrAdvInterval* – RA;
- *AdvManagedFlag* – / Managed RA;
- *AdvOtherConfigFlag* – / Other RA.

«Apply Changes».

«DHCPv6». DHCPv6-

DHCPv6-.

Advance IPv6 DHCPv6



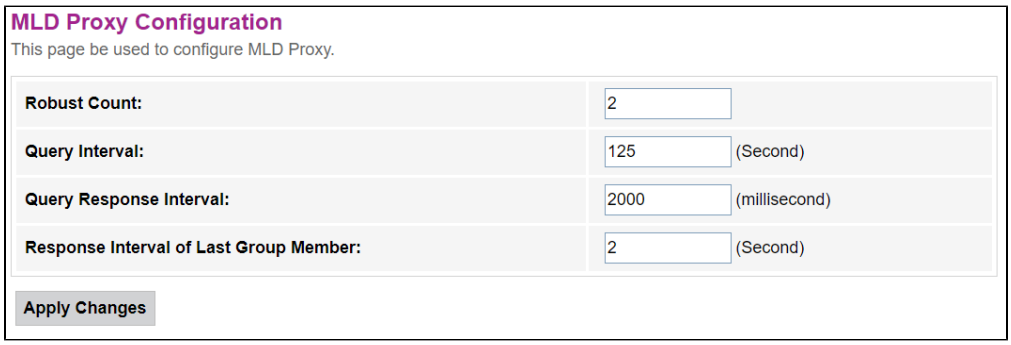
- *DHCPv6 Mode* – :
  - *NONE* – DHCP-;
  - *DHCPRelay* – DHCP-;
  - *DHCPServer* – DHCP-.

«Apply Changes».

«MLD proxy». MLD proxy

MLD proxy.

Advance IPv6 MLD proxy



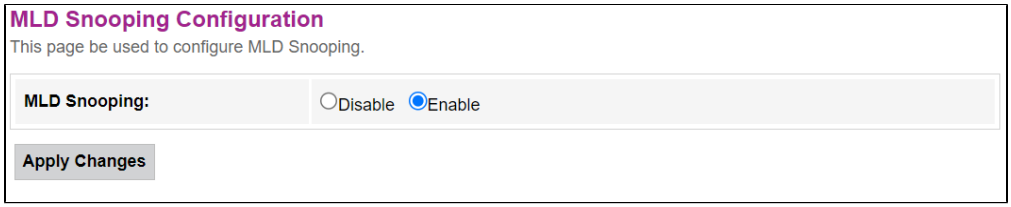
- *Robust Count* – MLD ;
- *Query Interval* – , Query;
- *Query Response Interval* – , Query ;
- *Response Interval of Last Group Member* – Group-Specific .

«Apply Changes».

«MLD snooping». MLD snooping

/ MLD snooping, *«Enable»/«Disable»*.

Advance IPv6 MLD snooping

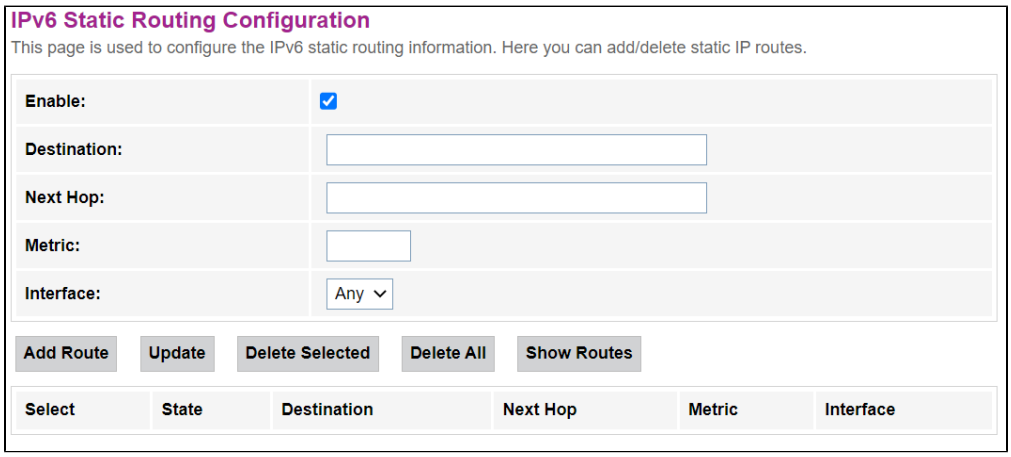


«Apply Changes».

«IPv6 routing». IPv6-

IPv6-.

Advance IPv6 IPv6 routing



- *Enable* – ;
- *Destination* – ;
- *Next Hop* – ;
- *Metric* – ;
- *Interface* – .

IPv6 routing «Add Route». *«Static IPv6 Route Table»*, «Update». «Delete All», «Delete Selected». «Show Routes» IPv6-, .

Advance IPv6 IPv6 routing Show Routes

IP Route Table

This table shows a list of destination routes commonly accessed by your network.

Destination	Next Hop	Flags	Metric	Ref	Use	Interface
fe80::/64	::	U	1024	2	11	br0
fe80::/64	::	U	256	0	0	br0
::1/128	::	U	0	1	0	lo
fe80::/128	::	U	0	1	0	lo
fe80::ce9d:a2ff:feeb:9174/128	::	U	0	2	8	lo
ff00::/8	::	U	256	2	1069	br0

Refresh Close

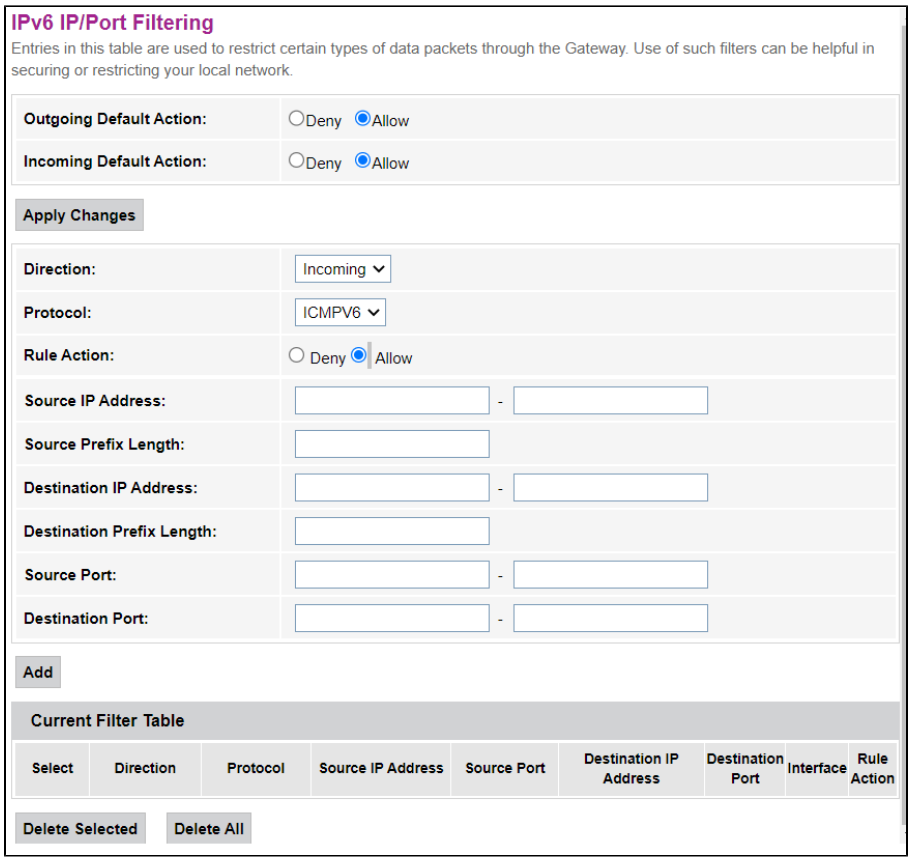
- *Destination* – ;
- *Next Hop* – ;
- *Flags* – ;
- *Metric* – ;
- *Ref* – ;
- *Use* – ;
- *Interface* – , .

«Refresh», – «Close».

«IPv6 IP/Port filtering».

, .

Advance IPv6 IP/Port filtering



- *Outgoing Default Action* – :
  - *Deny* – ;
  - *Allow* – .
- *Incoming Default Action* – :
  - *Deny* – ;
  - *Allow* – .
- *Direction* – :
  - *Outgoing* – ;
  - *Incoming* – .
- *Protocol* – ;
- *Rule Action (Deny/Allow)* – (/);
- *Source IP Address* – IP- ;
- *Source Prefix Length* – ;
- *Destination IP Address* – IP- ;
- *Destination Prefix Lenght* – ;
- *Source Port* – ;
- *Destination Port* – .

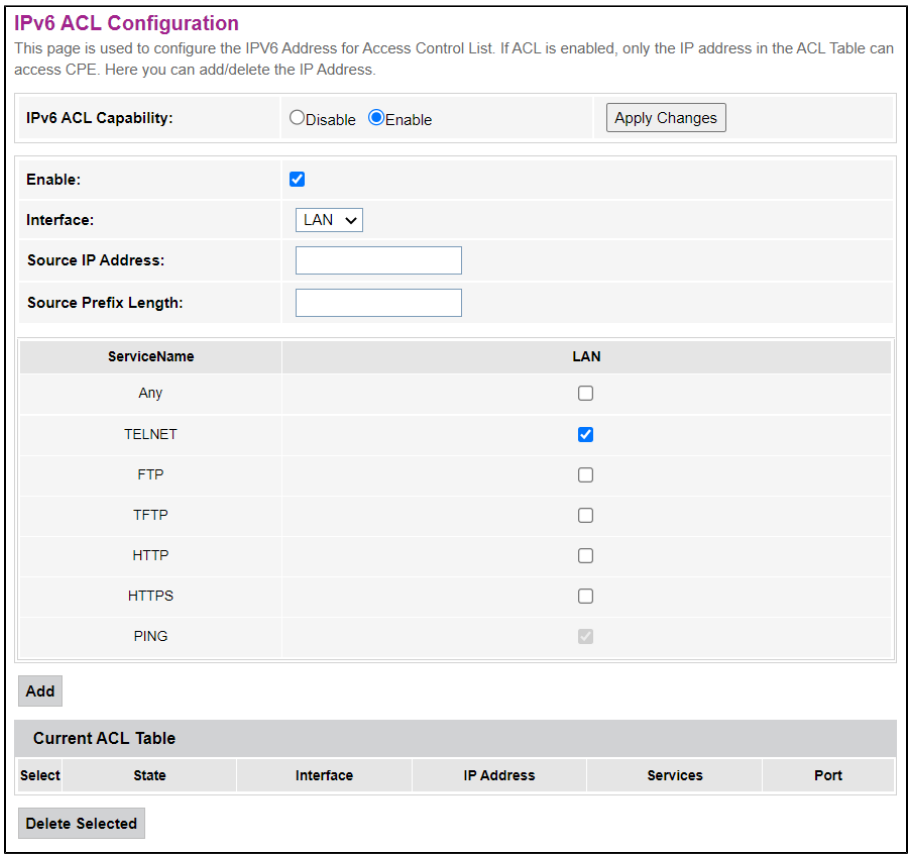
, «Add». *«Current Filter Table»*. «Delete All», , «Delete Selected».

«IPv6 ACL». IPv6 ACL

IPv6,

WAN, LAN.

Advance IPv6 IPv6 ACL



«Current ACL Table» Enable :

- *IPv6 ACL Capabillity –* ;
- *Enable –* IPv6 ACL;
- *Interface –* IPv6 ACL;
- *Source IP Address/Source Prefix Lenght –* , ;
- *Services –* , . ICMP, Telnet, HTTP. LAN .

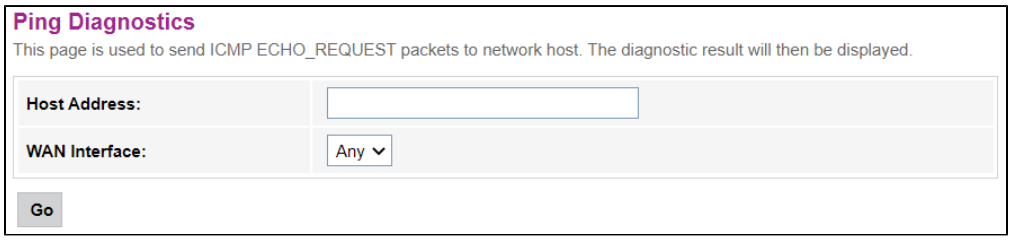
«Add». «Delete Selected».

«Diagnostics»

«Ping».

Ping, ICMP.

Diagnostics Ping



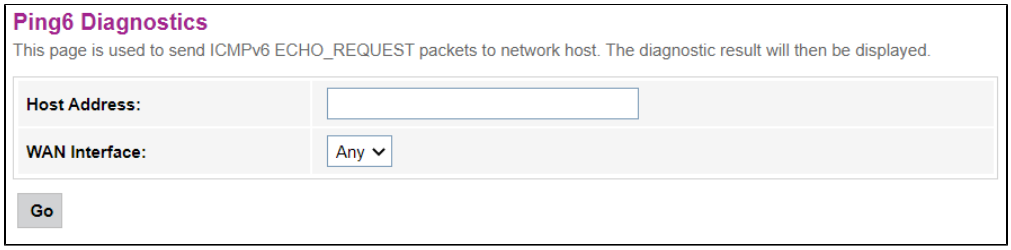
- *WAN Interface –* , .

IP- «Host Address» «Go».

«Ping6».

Ping, ICMPv6.

Diagnostics Ping6



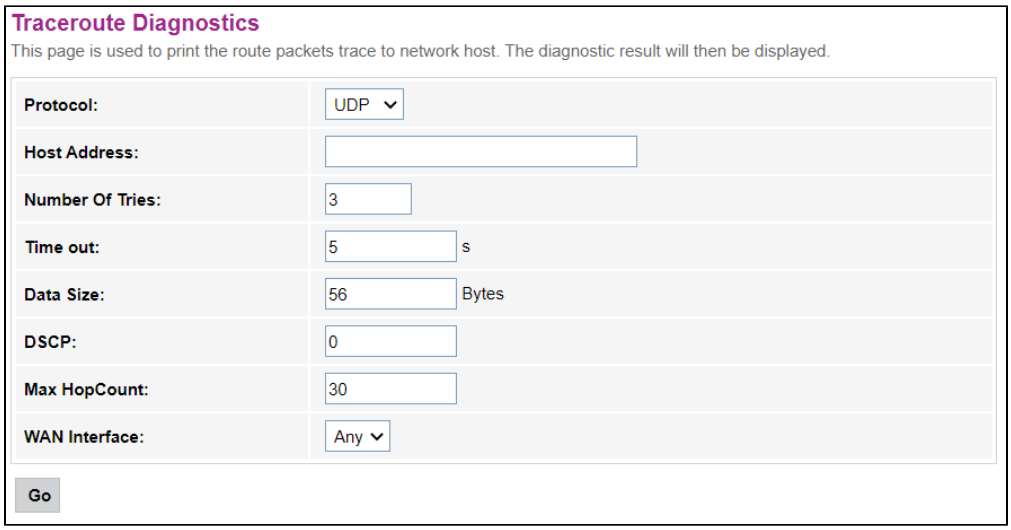
- *WAN Interface* – , .

IP- «Host Address» «Go».

«Traceroute». IPv4

UDP- / .

Diagnostics Traceroute



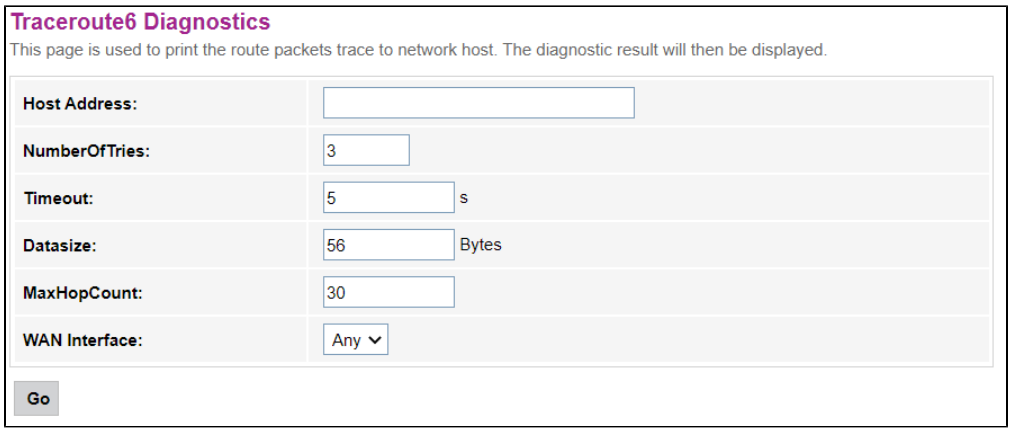
- *Protocol* – , ;
- *Host Address* – , ;
- *Number Of Tries* – ;
- *Time out* – ;
- *Data Size* – ;
- *DSCP* – Differentiated services codepoint ;
- *Max HopCount* – ;
- *WAN Interface* – , .

«Go».

«Traceroute6». IPv6

UDP- / .

Diagnostics Traceroute6



- *Host Address* – , ;
- *Number Of Tries* – ;
- *Time out* – ;
- *Data Size* – ;
- *Max HopCount* – ;
- *WAN Interface* – , .

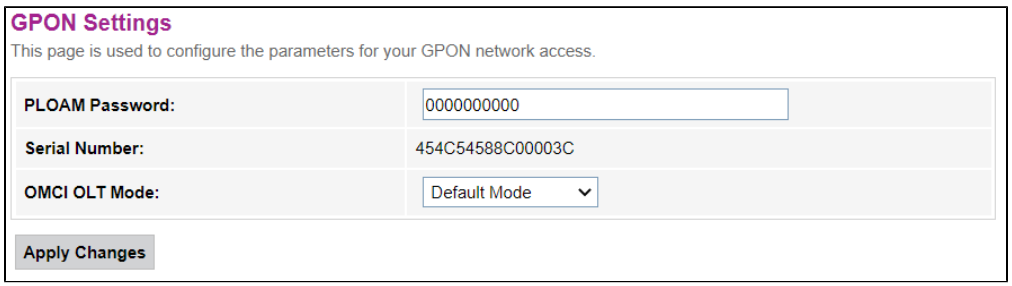
«Go».

«Admin»

. , , .

«GPON Settings». GPON

Admin GPON Settings

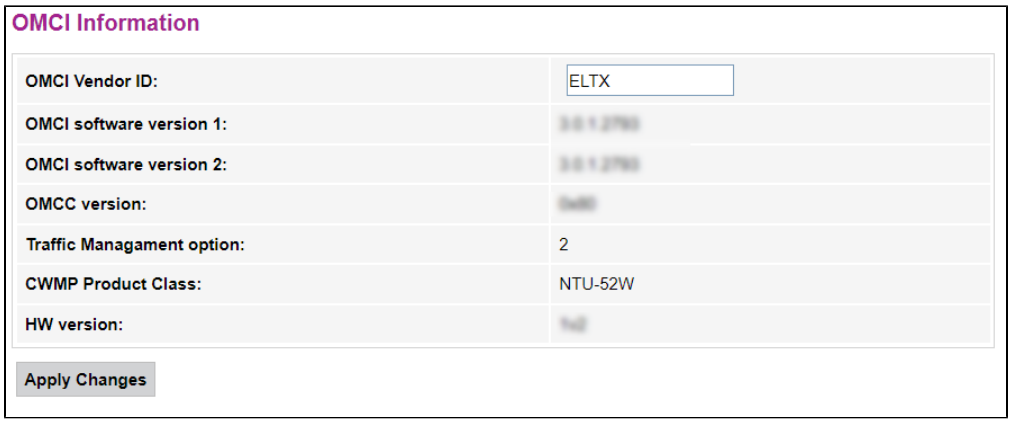


- *PLOAM Password* – OLT;
- *Serial Number* – PON CPE.

«Apply Changes».

«OMCI Information»

Admin OMCI Information



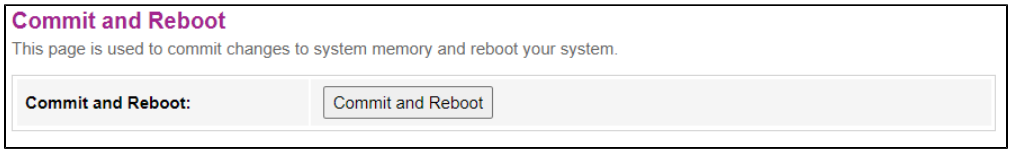
- *OMCI Vendor ID –* ;
- *OMCI software version 1 –* ;
- *OMCI software version 2 –* ;
- *OMCC version –* OMCI;
- *Traffic Managment option –* ;
- *CWMP Product Class –* ;
- *HW version –* .

«Apply Changes».

«Commit/Reboot».

«Commit and Reboot» . .

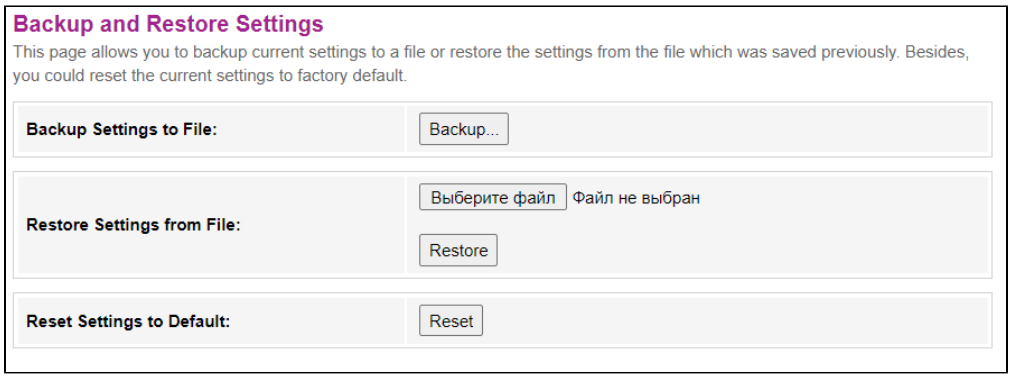
Admin Commit/Reboot



«Backup/Restore».

(*Backup Settings)* «Backup Settings to File», , (*Update Settings)* «Restore» (*Restore Default),* «Reset Settings to Default».

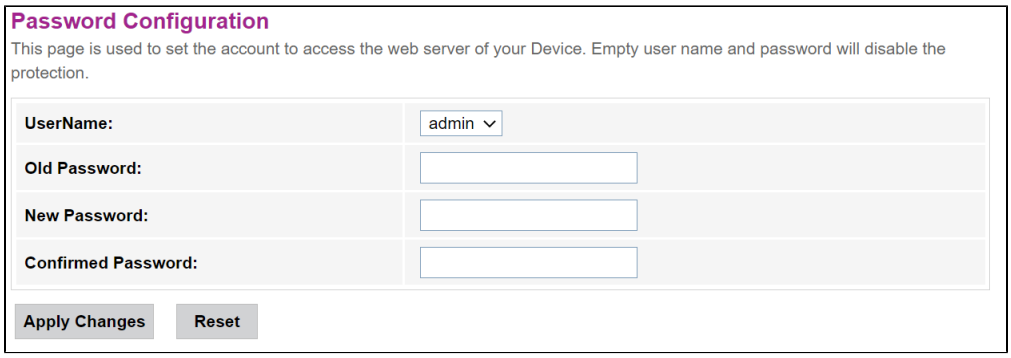
Admin Backup/Restore



«Password». ( )

.

Admin Password



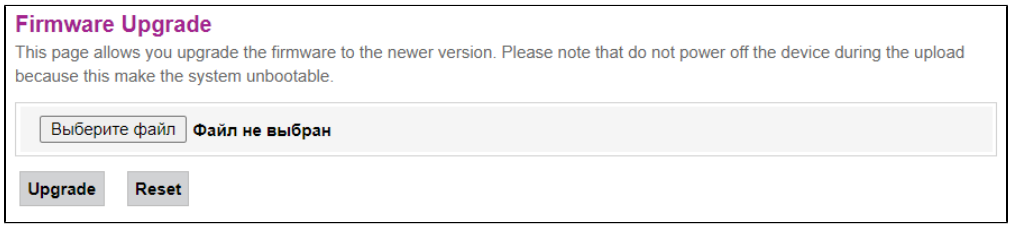
Old Password, *New Password* *Confirmed Password*.

«Apply hanges», – «Reset».

«Firmware upgrade».

, « » «Upgrade», «Reset».

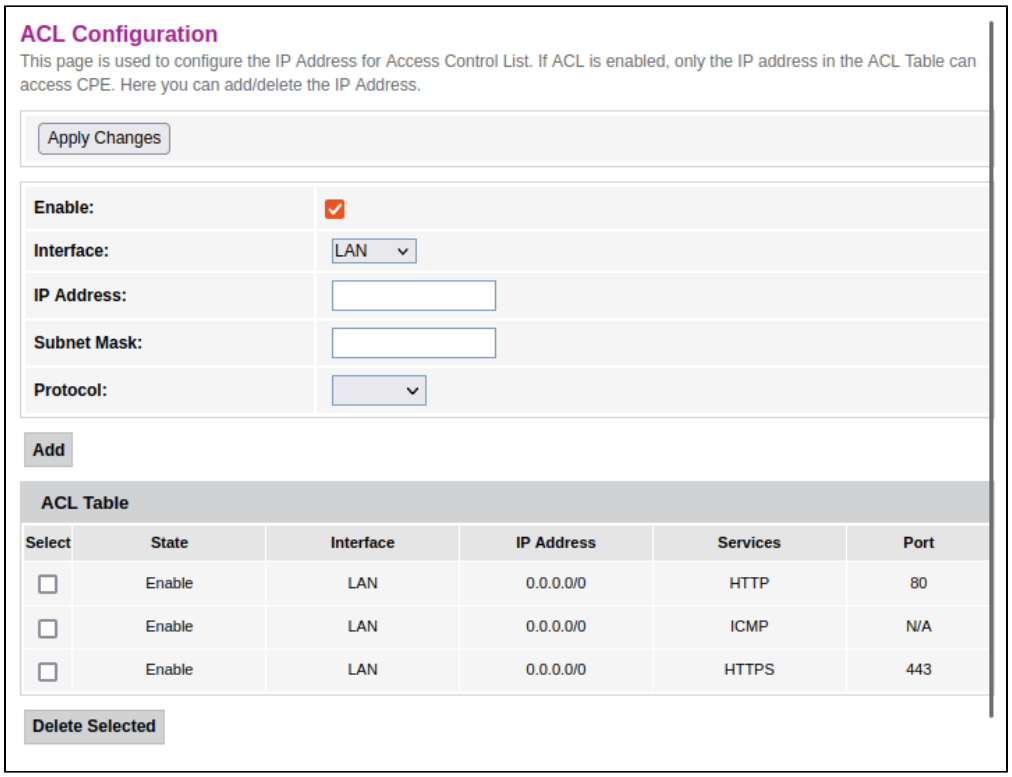
Admin Firmware upgrade



. , .

«ACL»

Admin Firmware upgrade



«ACL Table» Enable :

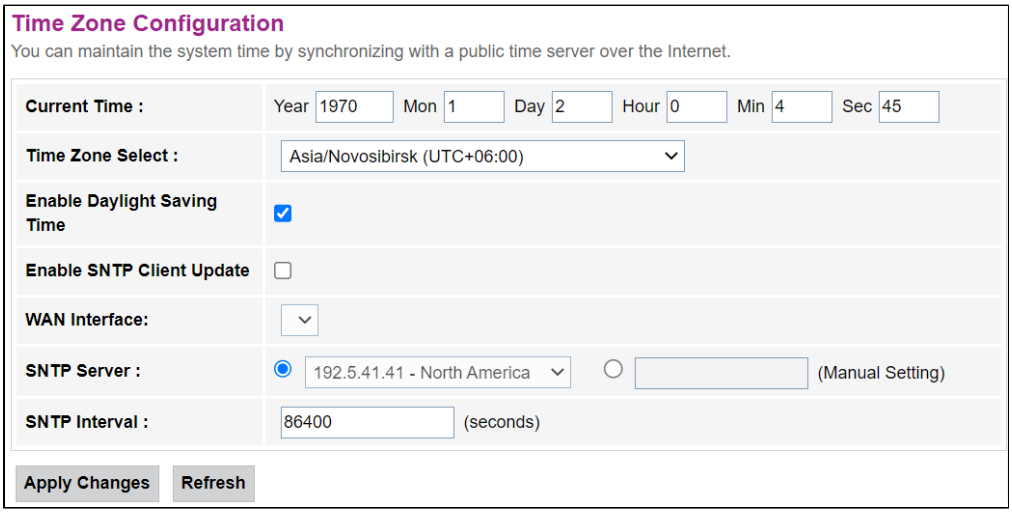
- *Interface* – ;
- *IP Address* – IP- ;
- *Subnet Mask* – ;
- *Protocol* – .

«Add». «Delete Selected».

«Time zone».

, - .

Admin Time zone



- *Current time* – ;
- *Time Zone Select* – ;
- *Enable Daylight Saving Time* – ;
- *Enable SNTP Client Update* – SNTP;
- *WAN Interface* – , ;
- *SNTP Server* – ;

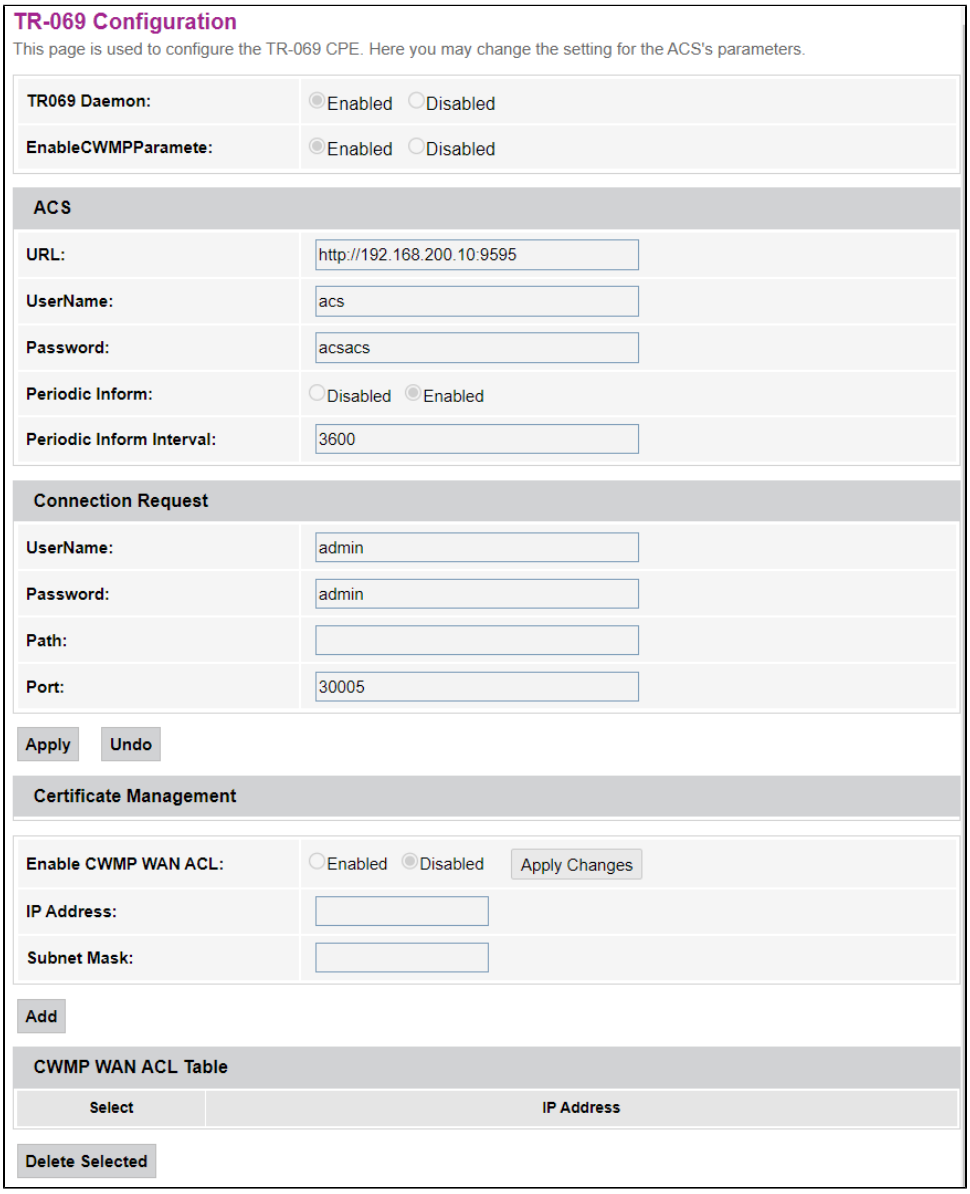
- *SNTP Interval* – NTP-.

«Apply Changes», «Refresh».

«TR-069». TR-069

TR-069.

Admin TR-069



- *TR069 Daemon (Enable/Disabled)* – / TR-069;
- *EnableCWMPParamete (Enable/Disabled)* – / CWMP;

ACS – ACS-.

- *URL* – URL ;
- *UserName* – ;
- *Password* – ;
- *Periodic Inform* – / ;
- *Periodic Inform Interval* – .

Connection Request – ONT.

- *UserName* – ;
- *Password* – ;
- *Path* – ;
- *Port* – .

«Apply», – «Undo». , «Upload». «Add». X , «Delete Selected».

«Statistics».

«Interface».

/ .

Statistics Interface

Interface Statisitcs

This page shows the packet statistics for transmission and reception regarding to network interface.

Interface Statisitcs

Interface	Rx pkt	Rx err	Rx drop	Tx pkt	Tx err	Tx drop
LAN1	164018	0	0	79699	0	0
LAN2	0	0	0	0	0	0
LAN3	3190638	0	0	0	0	0

Refresh Reset Statistics

- *Interface* – ;
- *Rx pkt* – ;
- *RX err* – ;
- *Rx drop* – ;
- *Tx pkt* – ;
- *Tx err* – ;
- *Tx drop* – .

«PON».

.

Statistics PON

PON Statistics

Bytes Sent:	0
Bytes Received:	0
Packets Sent:	0
Packets Received:	0
Unicast Packets Sent:	0
Unicast Packets Received:	0
Multicast Packets Sent:	0
Multicast Packets Received:	0
Broadcast Packets Sent:	0
Broadcast Packets Received:	0
FEC Errors:	0
HEC Errors:	0
Packets Dropped:	0
Pause Packets Sent:	0
Pause Packets Received:	0

Reset Statistics

- *Bytes Sent* – ;

- *Bytes Received* – ;
- *Packets Sent* – ;
- *Packets Received* – ;
- *Unicast Packet Sent* – Unicast- ;
- *Unicast Packet Received* – Unicast- ;
- *Multicast Packets Sent* – Multicast- ;
- *Multicast Packets Received* – Multicast- ;
- *Broadcast Packet Sent* – ;
- *Broadcast Packet Received* – ;
- *FEC Errors* – FEC;
- *HEC Errors* – HEC;
- *Packets Dropped* – ;
- *Pause Packets Sent* – ;
- *Pause Packets Received* – .

1.2	3.0.3	07.2023	
1.1	3.0.2	03.2023	
1.0	3.0.1	02.2023	