

QONT-9-4G-2V-1W

Оглавление

| | |
|--|----|
| 1. ЗАКЛАДКА STATUS | 5 |
| 1.1. Device Info – базовая информация об устройстве | 5 |
| 1.2. Network Info – состояние сети | 5 |
| 1.2.1 Wan info – состояние подключений | 5 |
| 1.3. xPON Info – состояние PON | 6 |
| 1.4. User Info – информация о подключеный клиентах | 6 |
| 1.5. VoIP Info – состояние подключения к сервису VoIP | 7 |
| 1.6. TR069 Status – состояние подключения к серверу TR69 | 7 |
| 2. ЗАКЛАДКА NETWORK | 8 |
| 2.1. – Internet - создание подключения | 8 |
| 2.2. - Режим Bridge | 9 |
| 2.3. - Режим Route | 10 |
| 2.4. Lan Vlan – настройки транслирования VLAN | 12 |
| 2.5. Multicast Lan Vlan – настройки транслирования VLAN для многоадресного вещания | 13 |
| 2.6. LAN Settings - Настройки локальной сети | 14 |
| 2.6.1 Настройки сети для протокола IPv4 | 14 |
| 2.7. Настройки сети для протокола IPv6 | 15 |
| 2.8. Rate limit – настройки скорости на ethernet портах | 15 |
| 2.9. Проверка на наличие петель. | 15 |
| 2.10. WLAN – настройки WiFi | 16 |
| 2.10.1 WLAN Basic – Базовые настройки WiFi | 16 |
| 2.11. Security – настройки безопасности беспроводной сети | 17 |
| 2.12. WLAN Advanced – Продвинутые настройки беспроводной сети | 18 |
| 2.13. Station Info – состояние подключений. | 19 |
| 2.14. TR69 – настройки подключения к серверу TR-69 | 20 |
| 2.15. SNMP settings – настройки SNMP | 21 |
| 2.16. QOS – Настройки QOS (качество обслуживания). | 22 |
| 2.17. Time Server – настройки сервера времени | 23 |
| 2.18. Route – настройка статических маршрутов | 24 |

| | |
|---|----|
| 3. ЗАКЛАДКА SECURITY | 25 |
| 3.1. URL Filter – Фильтрация интернет-адресов | 25 |
| 3.2. Firewall – Фаерволл | 25 |
| 3.3. MAC Filter – Фильтрация Мак адресов | 26 |
| 3.4. Port Filter – Фильтрация портов TCP\IP, UDP. | 26 |
| 4. ЗАКЛАДКА APPLICATION | 27 |
| 4.1. NAT – настройки NAT | 27 |
| 4.1.1 ALG – Настройки шлюза для уровня приложений. | 27 |
| 4.2. DMZ – настройки «демилитаризованной зоны» | 27 |
| 4.3. Virtual Server – настройки виртуального сервера | 28 |
| 4.4. UPNP – Включение Universal Plug & Play | 28 |
| 4.5. VoIP | 29 |
| 4.5.1 General settings – Основные настройки VoIP | 29 |
| 4.6. VoIP Advanced – продвинутые настройки VoIP | 30 |
| 4.7. VoIP Debug – отладка VoIP | 31 |
| 4.8. IGMP – Настройки IGMP | 31 |
| 4.8.1 IGMP SNOOPING – включение функции IGMP SNOOPING | 31 |
| 4.9. IGMP PROXY | 32 |
| 4.10. MAC Limited | 32 |
| 4.11. MLD | 33 |
| 4.12. Other | 33 |
| 4.12.1 Family Storage – файловое хранилище | 33 |
| 4.13. IPTV – настройки вещания. | 33 |
| 5. ЗАКЛАДКА MANAGEMENT | 34 |
| 5.1. User Manage – настройка пользователей для входа на устройство. | 34 |
| 5.2. Device Manage – управление устройством | 34 |
| 5.2.1 Device Reboot – перезагрузка устройства | 34 |
| 5.3. Update Image – обновление прошивки | 35 |
| 5.4. USB Backup – сохранение файла конфигурации на USB накопитель | 35 |
| 5.5. Configure Manage – резервное копирование и восстановление файла конфигурации | 35 |
| 5.6. Load Default – восстановление значений по умолчанию | 36 |
| 5.7. Log File | 36 |

| | |
|---------------------------|----|
| 5.8. Maintain - поддержка | 36 |
| 6. ЗАКЛАДКА DIAGNOSE | 37 |
| 6.1. Line Diagnose | 37 |
| 6.2. PING Diagnose | 37 |
| 6.3. Tracert Diagnose | 38 |
| 6.4. Inform reported | 38 |
| 6.5. Закладка Help | 38 |

1. ЗАКЛАДКА STATUS

1.1. Device Info – базовая информация об устройстве

| Status | Status | Network | Security | Application | Management | Diagnose | Help |
|-------------------|--------------------------|--------------------|-----------|-------------|--------------|----------|------|
| | Device Info | Network Info | User Info | VoIP Info | TR069 Status | | |
| Device Basic Info | Device Basic Info | | | | | | |
| | Device model: | QONT-9-4G-2V-1W | | | | | |
| | Device Mark No. | 001fce-001fcea5fbc | | | | | |
| | Hardware Version: | STDHGU-1.0 | | | | | |
| | Software Version: | 1.0.03.1607061537 | | | | | |
| | CFE Version: | CFE=1.0.38-117.80 | | | | | |

1.2. Network Info – состояние сети

1.2.1 Wan info – состояние подключений

| Status | Status | Network | Security | Application | Management | Diagnose | Help | | | | | |
|-----------------------|---------------------|--------------------------|---------------|-----------------|-----------------|-----------------|---------|---------|---------|--------------|--------------|--------------|
| | Device Info | Network Info | User Info | VoIP Info | TR069 Status | | | | | | | |
| WAN Info xPON Info | WAN Info | | | | | | | | | | | |
| | Interface | Description | Type | VlanMuxId | Vlan8021p | IGMP | NAT | IPv6 | MLD | Status | IPv4 Address | IPv6 Address |
| | veip0.1 | 2_VOIP_INTERNET_R_VID_55 | Router | 55 | Disable | Enable | Enable | Disable | Disable | Unconfigured | | |
| | veip0.2 | 3_VOIP_R_VID_3500 | Router | 3500 | Disable | Enable | Disable | Disable | Disable | Unconfigured | | |
| | Network Info | | | | | | | | | | | |
| | Interface | Default Gateway | Subnet Mask | DNS Server | IPv6 Default GW | IPv6 DNS Server | | | | | | |
| | veip0.1 | 0.0.0.0 | 0.0.0.0 | | | | | | | | | |
| | veip0.2 | 10.150.0.1 | 255.255.255.0 | 8.8.8.8,8.8.8.8 | | | | | | | | |

1.3. xPON Info – состояние PON

| Status | Status | Network | Security | Application | Management | Diagnose | Help | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--------------|-----------|-------------|---------------|---------------------|--------------------|------------------|-----------|-------------|----------|--------------|-----------|------------------|----------|---------------------|------------|-----------|---------|--|--|--|--|--|--|------|--|--|--|-------|-----------|--------|----------|---------------|---------------------|--------------------|-------|-----------|--------|----------|------|-------|---|-----|---|---|---|---|-------|---|-----|--|------|-------|-----|---|-----|---|---|---|-------|---|---|--|
| | Device Info | Network Info | User Info | VoIP Info | TR069 Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WAN Info xPON Info | GPON Info <table border="1"> <tr> <td>Temperature(°C):</td> <td>45.707031</td> </tr> <tr> <td>Voltage(V):</td> <td>3.231900</td> </tr> <tr> <td>Current(mA):</td> <td>16.059999</td> </tr> <tr> <td>Send Power(dBm):</td> <td>3.136774</td> </tr> <tr> <td>Receive Power(dBm):</td> <td>-14.522253</td> </tr> </table> Receive & Send Info <table border="1"> <thead> <tr> <th rowspan="2">Interface</th> <th colspan="7">Receive</th> <th colspan="4">Send</th> </tr> <tr> <th>Bytes</th> <th>Fragments</th> <th>Frames</th> <th>Messages</th> <th>DroppedFrames</th> <th>AcceptedMcastFrames</th> <th>DroppedMcastFrames</th> <th>Bytes</th> <th>Fragments</th> <th>Frames</th> <th>Messages</th> </tr> </thead> <tbody> <tr> <td>GPON</td> <td>14208</td> <td>0</td> <td>296</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>15548</td> <td>0</td> <td>299</td> <td></td> </tr> <tr> <td>OMCI</td> <td>14208</td> <td>296</td> <td>0</td> <td>296</td> <td>0</td> <td>0</td> <td>0</td> <td>14352</td> <td>0</td> <td>0</td> <td></td> </tr> </tbody> </table> | | | | | | | Temperature(°C): | 45.707031 | Voltage(V): | 3.231900 | Current(mA): | 16.059999 | Send Power(dBm): | 3.136774 | Receive Power(dBm): | -14.522253 | Interface | Receive | | | | | | | Send | | | | Bytes | Fragments | Frames | Messages | DroppedFrames | AcceptedMcastFrames | DroppedMcastFrames | Bytes | Fragments | Frames | Messages | GPON | 14208 | 0 | 296 | 0 | 0 | 0 | 0 | 15548 | 0 | 299 | | OMCI | 14208 | 296 | 0 | 296 | 0 | 0 | 0 | 14352 | 0 | 0 | |
| Temperature(°C): | 45.707031 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Voltage(V): | 3.231900 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Current(mA): | 16.059999 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Send Power(dBm): | 3.136774 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Receive Power(dBm): | -14.522253 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interface | Receive | | | | | | | Send | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Bytes | Fragments | Frames | Messages | DroppedFrames | AcceptedMcastFrames | DroppedMcastFrames | Bytes | Fragments | Frames | Messages | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GPON | 14208 | 0 | 296 | 0 | 0 | 0 | 0 | 15548 | 0 | 299 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OMCI | 14208 | 296 | 0 | 296 | 0 | 0 | 0 | 14352 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1.4. User Info – информация о подключенных клиентах

Информация о подключениях по беспроводной сети

| Status | Status | Network | Security | Application | Management | Diagnose | Help | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--------------|-----------|-------------|--------------|----------|------|-------------------------|--------|----------|---|--------------|-------|-------------------------|---------|--------------|-------|-------------------------|---------|--------------|-------|-------------------------|---------|--------------|-------|-------------------------|---------|-----------|---------|--|--|--|------|--|--|--|-------|------|------|-------|-------|------|------|-------|----------|--------|-------|---|---|---------|-------|---|---|
| | Device Info | Network Info | User Info | VoIP Info | TR069 Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN Interface LAN Interface USB Interface | WLAN Interface Info <table border="1"> <tr> <td>WLAN Connection Status:</td> <td>Enable</td> </tr> <tr> <td>Channel:</td> <td>1</td> </tr> <tr> <td>SSID-1 Name:</td> <td>FTTH1</td> </tr> <tr> <td>SSID-1 Security Status:</td> <td>Disable</td> </tr> <tr> <td>SSID-2 Name:</td> <td>FTTH2</td> </tr> <tr> <td>SSID-2 Security Status:</td> <td>Disable</td> </tr> <tr> <td>SSID-3 Name:</td> <td>FTTH3</td> </tr> <tr> <td>SSID-3 Security Status:</td> <td>Disable</td> </tr> <tr> <td>SSID-4 Name:</td> <td>FTTH4</td> </tr> <tr> <td>SSID-4 Security Status:</td> <td>Disable</td> </tr> </table> Receive/Send Info <table border="1"> <thead> <tr> <th rowspan="2">Interface</th> <th colspan="4">Receive</th> <th colspan="4">Send</th> </tr> <tr> <th>Bytes</th> <th>Pkts</th> <th>Errs</th> <th>Drops</th> <th>Bytes</th> <th>Pkts</th> <th>Errs</th> <th>Drops</th> </tr> </thead> <tbody> <tr> <td>Wireless</td> <td>803724</td> <td>10083</td> <td>0</td> <td>0</td> <td>2444891</td> <td>21913</td> <td>0</td> <td>0</td> </tr> </tbody> </table> | | | | | | | WLAN Connection Status: | Enable | Channel: | 1 | SSID-1 Name: | FTTH1 | SSID-1 Security Status: | Disable | SSID-2 Name: | FTTH2 | SSID-2 Security Status: | Disable | SSID-3 Name: | FTTH3 | SSID-3 Security Status: | Disable | SSID-4 Name: | FTTH4 | SSID-4 Security Status: | Disable | Interface | Receive | | | | Send | | | | Bytes | Pkts | Errs | Drops | Bytes | Pkts | Errs | Drops | Wireless | 803724 | 10083 | 0 | 0 | 2444891 | 21913 | 0 | 0 |
| WLAN Connection Status: | Enable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Channel: | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SSID-1 Name: | FTTH1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SSID-1 Security Status: | Disable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SSID-2 Name: | FTTH2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SSID-2 Security Status: | Disable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SSID-3 Name: | FTTH3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SSID-3 Security Status: | Disable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SSID-4 Name: | FTTH4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SSID-4 Security Status: | Disable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interface | Receive | | | | Send | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Bytes | Pkts | Errs | Drops | Bytes | Pkts | Errs | Drops | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wireless | 803724 | 10083 | 0 | 0 | 2444891 | 21913 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Информация по подключениях через Ethernet порты

| Status | Status | Network | Security | Application | Management | Diagnose | Help | |
|--|--------------------------|-------------------|-------------------|-------------|--------------|----------|------|-------|
| | Device Info | Network Info | User Info | VoIP Info | TR069 Status | | | |
| WLAN Interface LAN Interface USB Interface | Gateway Info | | | | | | | |
| | IP Address: | | LAN IPv4 Address: | | 192.168.1.1 | | | |
| | | | LAN IPv6 Address: | | | | | |
| | MAC Address: | | 00:1F:CE:FA:5F:BC | | | | | |
| | Receive/Send Info | | | | | | | |
| | Receive | | | | Send | | | |
| Interface | Bytes | Pkts | Errs | Drops | Bytes | Pkts | Errs | Drops |
| LAN1 | 5148562 | 57284 | 0 | 0 | 19607108 | 64328 | 0 | 0 |
| LAN2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LAN3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LAN4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | LAN Device Info | | | | | | | |
| | IP Address | MAC Address | Device Type | | | | | |
| | 192.168.1.2 | c4:12:f5:d4:ae:47 | Computer | | | | | |

1.5. VoIP Info – состояние подключения к сервису VoIP

| Status | Status | Network | Security | Application | Management | Diagnose | Help |
|---------------------------|--------------------|--------------|------------|-------------|--------------|----------|------|
| | Device Info | Network Info | User Info | VoIP Info | TR069 Status | | |
| VoIP Info | VoIP Info | | | | | | |
| | Name | | Line1 | | Line2 | | |
| | Registering status | | Registered | | Registered | | |
| | User status | | Idle | | Idle | | |
| | Phone No. | | 103 | | 104 | | |

1.6. TR069 Status – состояние подключения к серверу TR69

| Status | Status | Network | Security | Application | Management | Diagnose | Help |
|--|--|--------------|-----------|-------------|--------------|----------|------|
| | Device Info | Network Info | User Info | VoIP Info | TR069 Status | | |
| TR069 Connect Configuration | Inform sending status : | | | | | | |
| | Inform data is fail to be verified | | | | | | |
| | Accept ITMS connection request status : | | | | | | |
| | Remote connection procedure initiated by ITMS is interrupted | | | | | | |

2. ЗАКЛАДКА NETWORK

2.1. – Internet - создание подключения

| Network | Status | Network | Security | Application | Management | Diagnose | Help | | | | | | | | |
|--|---|--------------|----------|-------------|------------|----------|-------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| | Internet | LAN Settings | WLAN | TR069 | SNMP | QoS | Time Server | Route | | | | | | | |
| <ul style="list-style-type: none"> Internet LAN VLAN Multicast LAN VLAN | <h4>WAN Settings</h4> <p>Configure the WAN parameters.</p> <p>Uplink Mode: <input type="text" value="GPON"/></p> <p>Connection Name: <input type="text" value="2_VOIP_INTERNET_R_VID_55"/></p> <p>Mode: <input type="text" value="Route"/></p> <p>Protocol Mode: <input type="text" value="IPv4"/></p> <p> <input checked="" type="radio"/> DHCP Automatically obtain an IP address from your ISP <input type="radio"/> Static Configure a static IP address supplied by your ISP <input type="radio"/> PPPoE Select this option if your ISP uses PPPoE </p> <p>MTU: <input type="text" value="1492"/></p> <p>NAT: <input checked="" type="checkbox"/></p> <p>Enable Vlan: <input checked="" type="checkbox"/></p> <p>Vlan ID: <input type="text" value="55"/></p> <p>802.1p: <input type="text" value="0"/></p> <p>VLAN Mode: <input type="text" value="Tag"/></p> <p>Service Mode: <input type="text" value="VOIP_INTERNET"/></p> <p>Port Binding:</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Port_1</td> <td><input type="checkbox"/> Port_2</td> </tr> <tr> <td><input type="checkbox"/> Port_3</td> <td><input type="checkbox"/> Port_4</td> </tr> <tr> <td><input type="checkbox"/> Wlan(SSID1)</td> <td><input type="checkbox"/> Wlan(SSID2)</td> </tr> <tr> <td><input type="checkbox"/> Wlan(SSID3)</td> <td><input type="checkbox"/> Wlan(SSID4)</td> </tr> </table> <p><small>Note: The bound port can not be shared by different WAN connections, and the last binding operation will cover the previous one!</small></p> <p> <input type="button" value="Save/Apply"/> <input type="button" value="Del"/> </p> | | | | | | | <input type="checkbox"/> Port_1 | <input type="checkbox"/> Port_2 | <input type="checkbox"/> Port_3 | <input type="checkbox"/> Port_4 | <input type="checkbox"/> Wlan(SSID1) | <input type="checkbox"/> Wlan(SSID2) | <input type="checkbox"/> Wlan(SSID3) | <input type="checkbox"/> Wlan(SSID4) |
| <input type="checkbox"/> Port_1 | <input type="checkbox"/> Port_2 | | | | | | | | | | | | | | |
| <input type="checkbox"/> Port_3 | <input type="checkbox"/> Port_4 | | | | | | | | | | | | | | |
| <input type="checkbox"/> Wlan(SSID1) | <input type="checkbox"/> Wlan(SSID2) | | | | | | | | | | | | | | |
| <input type="checkbox"/> Wlan(SSID3) | <input type="checkbox"/> Wlan(SSID4) | | | | | | | | | | | | | | |

В поле Connection Name выбираем пункт Add WAN Connection

Далее выбираем режим подключения в поле Mode – Bridge или Route

2.2. - Режим Bridge

| Network | Status | Network | Security | Application | Management | Diagnose | Help |
|---|---|--------------|----------|-------------|------------|----------|-------------|
| | Internet | LAN Settings | WLAN | TR069 | SNMP | QoS | Time Server |
| <ul style="list-style-type: none"> Internet LAN VLAN Multicast LAN VLAN | <h3>WAN Settings</h3> <p>Configure the WAN parameters.</p> <p>Uplink Mode: <input type="text" value="GPON"/></p> <p>Connection Name: <input type="text" value="2_VOIP_INTERNET_R_VID_55"/></p> <p>Mode: <input type="text" value="Bridge"/></p> <p>MTU: <input type="text" value="1500"/></p> <p>Enable Vlan: <input checked="" type="checkbox"/></p> <p>Vlan ID: <input type="text"/></p> <p>802.1p: <input type="text"/></p> <p>VLAN Mode: <input type="text" value="Tag"/></p> <p>Service Mode: <input type="text" value="INTERNET"/></p> <p>Port Binding:</p> <p><input type="checkbox"/> Port_1 <input type="checkbox"/> Port_2</p> <p><input type="checkbox"/> Port_3 <input type="checkbox"/> Port_4</p> <p><input type="checkbox"/> Wlan(SSID1) <input type="checkbox"/> Wlan(SSID2)</p> <p><input type="checkbox"/> Wlan(SSID3) <input type="checkbox"/> Wlan(SSID4)</p> <p><small>Note: The bound port can not be shared by different WAN connections, and the last binding operation will cover the previous one!</small></p> <p><input type="button" value="Save/Apply"/> <input type="button" value="Del"/></p> | | | | | | |

В данном режиме ONT работает как коммутатор. Далее описание полей.

MTU – maximal transfer unit – максимальный размер пакета

Enable Vlan : вкл\выкл поддержки вланов

Vlan ID : Если поддержка вланов включена, то в этом поле пишем нужный нам влан.

802.1p : Назначаем приоритет(QoS)

VLAN Mode : Выбираем режим работы влана

Transparent – пропускать теги в пакетах

Tag – снимать тэг при прохождении пакета.

Service Mode : В данном режиме это поле роли не играет.

Port Binding : назначаем порт к которому привязано данное подключение (если не указать ничего, то подключение будет работать на всех портах)

Enable Vlan : вкл\выкл поддержки вланов

Vlan ID : Если поддержка вланов включена, то в этом поле пишем нужный нам влан.

802.1p : Назначаем приоритет (QoS)

VLAN Mode : Выбираем режим работы влана

Тут работает только 1 режим -> Tag – снимать тэг при прохождении пакета.

Service Mode : режим работы подключения

TR069_VOIP_INTERNET

TR069

TR069_VOIP

TR069_INTERNET

VOIP

VOIP_INTERNET

INTERNET

Other

Port Binding : Привязка подключения к порту.

После всех изменений обязательно нажать кнопку "Save/Apply"

2.4. Lan Vlan – настройки транслирования VLAN

The screenshot shows the QTECH web interface for configuring LAN VLAN settings. The top navigation bar includes 'Logout' and a menu with 'Status', 'Network', 'Security', 'Application', 'Management', 'Diagnose', and 'Help'. The 'Network' menu is expanded to show 'Internet', 'LAN Settings', 'WLAN', 'TR069', 'SNMP', 'QoS', 'Time Server', and 'Route'. The left sidebar has 'Internet', 'LAN VLAN', and 'Multicast LAN VLAN' options. The main content area is titled 'Local Area Network (LAN) VLAN Basic Settings' and contains an 'Advanced Mode Settings' section with explanatory text and a table for VLAN translation rules.

Advanced Mode Settings
When setting LAN VLAN, you should add an **Others transparent bridge** on **Internet** page.
Notice: The **Advanced Mode** is independent with **Basic Mode**.
When **Advanced Mode** is set to enable VLAN, the rules of **Advanced Mode** should be taken effect.
When **Advanced Mode** is set to disable VLAN, the rules of **Basic Mode** should be taken effect.

Select a LAN port:

Enable VLAN Mode

| Received VLAN ID | Translation VLAN ID |
|------------------|---------------------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Notice: When Received/Translation VLAN ID is 0, it means that received/translation packet without VLAN.
When Received VLAN ID is same as Translation VLAN ID, it means there is a VLAN trunk rule.
When Received VLAN ID is different with Translation VLAN ID, it means there is a VLAN translate rule.

Данные настройки применяются для транслирования одного VLAN в другой.

2.5. Multicast Lan Vlan – настройки транслирования VLAN для многоадресного вещания

The screenshot shows a web-based configuration interface for a network device. The top navigation bar includes tabs for Status, Network, Security, Application, Management, Diagnose, and Help. Under the Network tab, there are sub-tabs for Internet, LAN Settings, WLAN, TR069, SNMP, QoS, Time Server, and Route. The left sidebar has a tree view with 'Internet' selected, and sub-items for 'LAN VLAN' and 'Multicast LAN VLAN'. The main content area is titled 'Local Area Network (LAN) Multicast VLAN Basic Settings'. It contains a dropdown menu for 'Select a LAN port:' with 'eth0/eth0' selected, and a checked checkbox for 'Enable VLAN Mode'. Below this is a table with two columns: 'Received VLAN ID' and 'Translation VLAN ID'. The table has 8 rows, all of which are currently empty. There is an unchecked checkbox for 'Enable VLAN Cross'. A 'Notice' section explains that a Received/Translation VLAN ID of 0 means a packet without VLAN, the same ID means a VLAN trunk rule, and different IDs mean a VLAN translate rule. An 'Apply/Save' button is at the bottom.

| Received VLAN ID | Translation VLAN ID |
|------------------|---------------------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Данные настройки применяются для транслирования multicast VLAN в другой.

2.6. LAN Settings - Настройки локальной сети

2.6.1 Настройки сети для протокола IPv4

| Network | Status | Network | Security | Application | Management | Diagnose | Help |
|---------|----------|--------------|----------|-------------|------------|----------|-------------|
| | Internet | LAN Settings | WLAN | TR069 | SNMP | QoS | Time Server |

LAN Settings

Configure the IP address and subnet mask of the LAN access ports of the CPE. Click "Save/Apply" button to save the LAN configuration.

IP Address:

Subnet Mask:

Disable DHCP server
 Enable DHCP server

Beginning IP Address:

Ending IP Address:

Subnet Mask:

Lease Time:

DNS Manual:

Primary DNS:

Secondary DNS:

Reserved IP address

Select "Add" or "Del" to configure reserved IP allocations in the DHCP server.
 Note: A maximum of 10 reserved IP address are allowed. (Local IP and MAC will not occupy the quota)

| MAC Address | IP Address | Del |
|-------------------|-------------|--------------------------|
| 00:1f:ce:fa:5f:bc | 192.168.1.1 | <input type="checkbox"/> |

На этой странице мы задаем IP адрес во внутренней сети абонента
 Включение, выключение и настройки DHCP сервера для внутренней сети.
 Резервирование адресов по мак адресу для выдачи DHCP сервером.

2.7. Настройки сети для протокола IPv6

| Network | Status | Network | Security | Application | Management | Diagnose | Help |
|--------------|---|--------------|----------|-------------|------------|----------|-------------|
| | Internet | LAN Settings | WLAN | TR069 | SNMP | QoS | Time Server |
| IPv4 | IPv6 LAN address distribution Attention: When DHCP status mode = ON; if the prefix length is less than 64 and address compression "::" is not supported, please input the complete address. Such as "0:0:0:2", do NOT abbreviate the address. Example "::2". | | | | | | |
| IPv6 | LAN static IPv6 address setting IPv6 static address(Prefix should be set, such as fd00::1/64): <input type="text"/> | | | | | | |
| Rate Limited | IPv6 LAN Applications <input checked="" type="checkbox"/> Enable DHCPv6 Server <input checked="" type="radio"/> Stateless <input type="radio"/> Stateful Starting Interface ID: <input type="text" value="0:0:0:2"/> Ending Interface ID: <input type="text" value="0:0:0:254"/> Lease Time(Hours): <input type="text"/> | | | | | | |
| Loop Test | <input checked="" type="checkbox"/> Enabling Radvd <input type="checkbox"/> Enable ULA Prefix Advertisement Static ULA Prefix:(fd00::/64) <input type="text"/> Preferred Life Time (hour): <input type="text" value="-1"/> Valid Life Time (hour): <input type="text" value="-1"/> <input type="button" value="Save/Apply"/> | | | | | | |

2.8. Rate limit – настройки скорости на ethernet портах

| Network | Status | Network | Security | Application | Management | Diagnose | Help |
|--------------|---|--------------|----------|-------------|------------|----------|-------------|
| | Internet | LAN Settings | WLAN | TR069 | SNMP | QoS | Time Server |
| IPv4 | LAN Rate Limited | | | | | | |
| IPv6 | LAN1: <input type="text" value="0"/> kb/s | | | | | | |
| Rate Limited | LAN2: <input type="text" value="0"/> kb/s | | | | | | |
| Loop Test | LAN3: <input type="text" value="0"/> kb/s | | | | | | |
| | LAN4: <input type="text" value="0"/> kb/s | | | | | | |
| | <input type="button" value="Save/Apply"/> | | | | | | |

2.9. Проверка на наличие петель.

| Network | Status | Network | Security | Application | Management | Diagnose | Help |
|--------------|--|--------------|----------|-------------|------------|----------|-------------|
| | Internet | LAN Settings | WLAN | TR069 | SNMP | QoS | Time Server |
| IPv4 | Loop Test | | | | | | |
| IPv6 | <input checked="" type="checkbox"/> Enable Loop Test | | | | | | |
| Rate Limited | <input type="button" value="Save/Apply"/> | | | | | | |
| Loop Test | | | | | | | |

2.10. WLAN – настройки WiFi

2.10.1 WLAN Basic – Базовые настройки WiFi

Network | Status | Network | Security | Application | Management | Diagnose | Help

Internet | LAN Settings | **WLAN** | TR069 | SNMP | QoS | Time Server | Route

WLAN Basic

Wireless -- Basic

This page is used to configure basic features of wireless LAN port. Including enable or disable wireless LAN port, hide SSID from being scanned by AP, set wireless network name (SSID), set channel frequency according to different country standards and so on. Click on "Save/Apply" to take effect the basic configuration of wireless.

Enable Wireless

Hide Access Point

Clients Isolation

Disable WMM Advertise

Enable Wireless Multicast Forwarding (WMF)

SSID:

BSSID: 00:1F:CE:FA:5F:BD

Country:

Max Clients:

Wireless - Virtual Interface:

| Enabled | SSID | Hidden | Isolate Clients | Disable WMM Advertise | Enable WMF | Max Clients | BSSID |
|--------------------------|------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------|-------|
| <input type="checkbox"/> | <input type="text" value="FTTH2"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="text" value="16"/> | N/A |
| <input type="checkbox"/> | <input type="text" value="FTTH3"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="text" value="16"/> | N/A |
| <input type="checkbox"/> | <input type="text" value="FTTH4"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="text" value="16"/> | N/A |

Enable Wireless – Вкл\выкл WiFi

Hide Access Point – скрыть из обнаружения точку доступа

Clients Isolation – Изоляция клиентов (подключенные устройства не будут видеть друг друга)

Disable WMM Advertise – Выключение WMM (Wi-Fi Multimedia)

Enable Wireless Multicast Forwarding (WMF) – Разрешение транслирования multicast потоков через WiFi

SSID: - имя сети

BSSID: 00:1F:CE:FA:5F:BD - мак адрес точки доступа

Country: - страна нахождения

Max Clients: - разрешенный максимум клиентов

2.11. Security – настройки безопасности беспроводной сети

| Network | Status | Network | Security | Application | Management | Diagnose | Help |
|---------|----------|--------------|----------|-------------|------------|----------|-------------|
| | Internet | LAN Settings | WLAN | TR069 | SNMP | QoS | Time Server |

| | |
|----------------------|---|
| WLAN Basic | WLAN Config -- Security <p>This page is used to configure the security of wireless LAN interface. Including WPS on/off, authentication methods, data encryption, Wi-Fi authentication key, key length and so on.</p> WPS Setup <p>Enable WPS <input type="text" value="Disabled"/></p> Manual Setup AP <p>You can set the network authentication method, selecting data encryption, specify whether a network key is required to authenticate to this wireless network and specify the encryption strength. Click "Apply/Save" when done.</p> <p>Select SSID: <input type="text" value="FTTH1"/></p> <p>Network Authentication: <input type="text" value="Open"/></p> <p>WEP Encryption: <input type="text" value="Disabled"/></p> <p><input type="button" value="Save/Apply"/></p> |
| Security | |
| WLAN Advanced | |
| Station Info | |

2.12. WLAN Advanced – Продвинуые настройки беспроводной сети

| Network | Status | Network | Security | Application | Management | Diagnose | Help |
|---------|----------|--------------|----------|-------------|------------|----------|-------------|
| | Internet | LAN Settings | WLAN | TR069 | SNMP | QoS | Time Server |

| | |
|----------------------|--|
| WLAN Basic | Wireless -- Advanced |
| Security | This page is used to configure advanced features of wireless LAN port. Including speed, TRS, power-saving mode, access point beacons, XPress mode and so on. Click "Save/Apply" to take effect advanced configurations of wireless. |
| WLAN Advanced | |
| Station Info | |

| | | |
|---------------------------------|----------|---------------------------------------|
| Band: | 2.4GHz | |
| Channel: | Auto | Current: 1 (interference: acceptable) |
| Auto Channel Timer(min) | 0 | |
| 802.11n/EWC: | Auto | |
| Bandwidth: | 20MHz | Current: 20MHz |
| Control Sideband: | Lower | Current: N/A |
| 802.11n Rate: | Auto | |
| 802.11n Protection: | Auto | |
| Support 802.11n Client Only: | Off | |
| RIFS Advertisement: | Off | |
| OBSS Coexistence: | Disable | |
| RX Chain Power Save: | Disable | Power Save status: Full Power |
| RX Chain Power Save Quiet Time: | 10 | |
| RX Chain Power Save PPS: | 10 | |
| 54g™ Rate: | 1 Mbps | |
| Multicast Rate: | Auto | |
| Basic Rate: | Default | |
| Fragmentation Threshold: | 2346 | |
| RTS Threshold: | 2347 | |
| DTIM Interval: | 1 | |
| Beacon Interval: | 100 | |
| Global Max Clients: | 16 | |
| XPress™ Technology: | Disabled | |
| Transmit Power: | 100% | |
| WMM(Wi-Fi Multimedia): | Enabled | |
| WMM No Acknowledgement: | Disabled | |
| WMM APSD: | Enabled | |

[Save/Apply](#)

2.13. Station Info – состояние подключений.

| Network | Status | Network | Security | Application | Management | Diagnose | Help |
|---------|----------|--------------|----------|-------------|------------|----------|-------------|
| | Internet | LAN Settings | WLAN | TR069 | SNMP | QoS | Time Server |

WLAN Basic

Security

WLAN Advanced

Station Info

Wireless -- Authenticated Stations

This page shows authenticated wireless stations and their status.

| MAC | Associated | Authorized | SSID | Interface |
|-----|------------|------------|------|-----------|
|-----|------------|------------|------|-----------|

2.14. TR69 – настройки подключения к серверу TR-69

| Network | Status | Network | Security | Application | Management | Diagnose | Help |
|---------|----------|--------------|----------|-------------|------------|----------|-------------|
| | Internet | LAN Settings | WLAN | TR069 | SNMP | QoS | Time Server |

ITMS Server
LOID

TR-069 Client Configuration

WAN Management Protocol (TR-069) allows the auto-configuration server (ACS) to do automatic configuration and diagnostics of this device.

Set values as you need, and click "Apply/Save" to configure the TR-069 client options.

Inform Disable Enable

Secure Link:

Inform Interval:

ACS URL:

ACS User Name:

ACS Password:

WAN Interface used by TR-069 client:

Display SOAP messages on serial console Disable Enable

Connection Request Authentication

Connection Request User Name:

Connection Request Password:

Connection Request URL:

2.15. SNMP settings – настройки SNMP

The screenshot shows the QTECH web interface. At the top left is the QTECH logo with the tagline "МИР ДОСТУПНЕЕ". To the right is a "Logout" link. Below the logo is a navigation menu with tabs: "Network" (selected), "Status", "Network", "Security", "Application", "Management", "Diagnose", and "Help". Under the "Network" tab, there are sub-tabs: "Internet", "LAN Settings" (selected), "WLAN", "TR069", "SNMP", "QoS", "Time Server", and "Route".

The main content area is titled "SNMP Setting" and "SNMP - Configuration". It contains the following text: "Simple Network Management Protocol (SNMP) allows a management application to retrieve statistics and status from the SNMP agent in this device. Select the desired values and click 'Apply' to configure the SNMP options."

Below the text are the configuration options:

- SNMP Agent: Disable Enable
- Read Community:
- Set Community:
- System Name:
- System Location:
- System Contact:
- Trap Manager IP:

At the bottom right of the configuration area is a "Save/Apply" button.

2.16. QOS – Настройки QOS (качество обслуживания).

The screenshot shows the QoS configuration page in a network management system. The interface is divided into several sections:

- Navigation Menu:** Includes tabs for Status, Network, Security, Application, Management, Diagnose, and Help. Under the Network tab, there are sub-tabs for Internet, LAN Settings, WLAN, TR069, SNMP, QoS (selected), Time Server, and Route.
- QoS Configuration:**
 - Mode Row: A dropdown menu set to "OTHER".
 - Enable QoS: An unchecked checkbox.
 - Upstream bandwidth(kfps): A text input field containing "0".
 - Queue Precedence: Radio buttons for Priority (selected), WRR, and CAR.
 - Enable DSCP: An unchecked checkbox.
 - Enable 802.1P: Radio buttons for Disable (selected), Unchange, and Replace.
- Queue and Priority Table:**

| Queue | Priority |
|-------|----------|
| 1 | Highest |
| 2 | High |
| 3 | Medium |
| 4 | Low |
| 5 | Low |
| 6 | Low |
| 7 | Low |
| 8 | Low |
- Service Name and Queue Table:**

| Service Name | Queue |
|--------------|-------|
| "" | 1 |
| "" | 1 |
- Class Type Table:**

| Type | Value | Protocol | Queue | DSCP | 802.1P |
|------|-------|----------|-------|------|--------|
|------|-------|----------|-------|------|--------|
- Buttons:** "Add Class Type", "Delete Class Type", and "Save/Apply".

2.17. Time Server – настройки сервера времени

| Network | Status | Network | Security | Application | Management | Diagnose | Help |
|---------|----------|--------------|----------|-------------|------------|----------|-------------|
| | Internet | LAN Settings | WLAN | TR069 | SNMP | QoS | Time Server |

Time Server

Time Setting

This page allows you to configure time related parameters of your router.

Automatically synchronize with an internet time server

The first NTP time server:

The second NTP time server:

The third NTP time server:

The fourth NTP time server:

The fifth NTP time server:

Timezone:

2.18. Route – настройка статических маршрутов

Network

Status Network Security Application Management Diagnose Help

Internet LAN Settings WLAN TR069 SNMP QoS Time Server **Route**

Static Route

Routing -- Static Route (A maximum 32 entries can be configured)

NOTE: For system created route, the 'Remove' checkbox is disabled.

| IP Version | DstIP/ PrefixLength | Gateway | Interface | metric | Remove |
|------------|---------------------|---------|-----------|--------|--------|
|------------|---------------------|---------|-----------|--------|--------|

Add Remove

3. ЗАКЛАДКА SECURITY

3.1. URL Filter – Фильтрация интернет-адресов

| Security | Status | Network | Security | Application | Management | Diagnose | Help |
|------------|---|----------|------------|-------------|------------|----------|------|
| | URL Filter | Firewall | MAC Filter | Port Filter | | | |
| URL Filter | <p>URL Filter -- Please select the list type and set the rules. 100 rules supported at most.</p> <p><input checked="" type="checkbox"/> Enable URL Filter</p> <p>URL List Mode : <input checked="" type="radio"/> Black List <input type="radio"/> White List</p> <p> <input type="text" value="URL Address"/> <input type="text" value="Port"/> <input type="text" value="Del"/> </p> <p> <input type="button" value="Add"/> <input type="button" value="Del"/> </p> | | | | | | |

3.2. Firewall – Фаерволл

Уровни защиты

| Security | Status | Network | Security | Application | Management | Diagnose | Help |
|----------------|---|----------|------------|-------------|------------|----------|------|
| | URL Filter | Firewall | MAC Filter | Port Filter | | | |
| Security Level | <p>Select the Firewall Level:</p> <p>Low: Protect nothing;</p> <p>Medium:Denial of Service protections;</p> <p>High: Forbid ICMP Input, Forbid Port Scan, Denial of Service protections;</p> <p>Firewall Level: <input type="text" value="Low"/></p> <p> <input type="text" value="Service"/> <input type="text" value="WAN->LAN"/> <input type="text" value="LAN->WAN"/> </p> <p><input type="button" value="Save/Apply"/></p> | | | | | | |

Защита от DoS атак

| Security | Status | Network | Security | Application | Management | Diagnose | Help |
|----------------|---|----------|------------|-------------|------------|----------|------|
| | URL Filter | Firewall | MAC Filter | Port Filter | | | |
| Security Level | <p>DoS Protection</p> <p>DOS is used to prevent security attacks aimed at crippling the CPE operation and affecting user services.</p> <p> <input type="radio"/> Disable <input checked="" type="radio"/> Enable <input type="button" value="OK"/> </p> | | | | | | |

3.3. MAC Filter – Фильтрация Мак адресов

Security | Status | Network | **Security** | Application | Management | Diagnose | Help

URL Filter | Firewall | **MAC Filter** | Port Filter

MAC Filter

Add MAC Address Filter Rules

MAC Address Filter: Enable Disable

Filter Mode: Black List White List

MAC Address:

| | |
|-------------|-----|
| MAC Address | Del |
|-------------|-----|

3.4. Port Filter – Фильтрация портов TCP\IP, UDP.

Port Filter

Port Id: Filter Mode:

| Port Id | Filter Mode |
|---------|-------------|
| Port_1 | BlackList |
| Port_2 | BlackList |
| Port_3 | BlackList |
| Port_4 | BlackList |

Filter Configuration:

Port Id:

Filter Direction:

EthType S-MAC D-MAC S-IP D-IP Protocol S-Port D-Port

Select Filter Type

Ethernet Type:

Src MAC: (xx:xx:xx:xx:xx:xx)

Dst MAC: (xx:xx:xx:xx:xx:xx)

Src IP:

Dst IP:

Protocol: (0-255)

Src Port: --

Dst Port: --

| Port Id | Direction | EthType | SrcMac | DstMac | SrcIp | DstIp | IpProtocol | SrcStartPort | SrcEndPort | DstStartPort | DstEndPort | D |
|---------|-----------|---------|--------|--------|-------|-------|------------|--------------|------------|--------------|------------|---|
|---------|-----------|---------|--------|--------|-------|-------|------------|--------------|------------|--------------|------------|---|

4. ЗАКЛАДКА APPLICATION

4.1. NAT – настройки NAT

4.1.1 ALG – Настройки шлюза для уровня приложений.

| Application | Status | Network | Security | Application | Management | Diagnose | Help |
|--|---|---------|----------|-------------|-------------|----------|-------|
| | NAT | UPNP | VoIP | IGMP | MAC Limited | MLD | Other |
| ALG DMZ Virtual Server | Application-level Gateway Settings Select ALG: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Enable H.323 <input checked="" type="checkbox"/> Enable SIP <input checked="" type="checkbox"/> Enable RTSP <input checked="" type="checkbox"/> Enable IPSEC <input checked="" type="checkbox"/> Enable FTP <input checked="" type="checkbox"/> Enable L2TP | | | | | | |
| | <input type="button" value="Save/Apply"/> | | | | | | |

Включений разрешений для протоколов передачи данных

4.2. DMZ – настройки «демилитаризованной зоны»

| Application | Status | Network | Security | Application | Management | Diagnose | Help |
|--|---|---------|----------|-------------|-------------|----------|-------|
| | NAT | UPNP | VoIP | IGMP | MAC Limited | MLD | Other |
| ALG DMZ Virtual Server | NAT -- DMZ host The CPE Router will send all WAN packets which are not included on the allowed list of the virtual server to the Demilitarised Zone. Input the DMZ Host IP address and click Save/Apply to activate the DMZ host. Clear the IP address and click Save/Apply to deactivate the DMZ host. | | | | | | |
| | DMZ Host IP Address: <input type="text"/> | | | | | | |
| | <input type="button" value="Save/Apply"/> | | | | | | |

4.3. Virtual Server – настройки виртуального сервера

| Application | Status | Network | Security | Application | Management | Diagnose | Help |
|-------------|--------|---------|----------|-------------|-------------|----------|-------|
| | NAT | UPNP | VoIP | IGMP | MAC Limited | MLD | Other |

NAT -- Virtual Servers Setup

Virtual Server allows you to direct incoming traffic from WAN side (identified by Protocol and External port) to the Internal server with private IP address on the LAN side. The Internal port is required only if the external port needs to be converted to a different port number used by the server on the LAN side. A maximum 32 entries can be configured.

| Server Name | External Port Start | External Port End | Protocol | Internal Port Start | Internal Port End | Server IP Address | WAN Interface | Remove |
|-------------|---------------------|-------------------|----------|---------------------|-------------------|-------------------|---------------|--------|
| | | | | | | | | |

4.4. UPNP – Включение Universal Plug & Play

| Application | Status | Network | Security | Application | Management | Diagnose | Help |
|-------------|--------|---------|----------|-------------|-------------|----------|-------|
| | NAT | UPNP | VoIP | IGMP | MAC Limited | MLD | Other |

UPnP Setting

Enable UPnP

4.5. VoIP

4.5.1 General settings – Основные настройки VoIP

| Application | Status | Network | Security | Application | Management | Diagnose | Help | | | | | | | | | | | | | | | | | | |
|---|---|----------------------------------|----------|-------------|-------------|----------|-------|------|--------|--------|---------|----------------------------------|----------------------------------|--------------|----------------------------------|----------------------------------|---------------|----------------------------------|----------------------------------|---------------|----------------------------------|----------------------------------|----------------|---------------------------------|---------------------------------|
| | NAT | UPNP | VoIP | IGMP | MAC Limited | MLD | Other | | | | | | | | | | | | | | | | | | |
| General Settings VoIP Advanced VoIP Debug | <p>Global Basic Settings</p> <p>Input the VoIP service SIP parameters and select Start to apply the settings and start the SIP registrations process. Select Stop to prevent SIP registration from occurring. Select Restart to reinitialise the SIP registration with the current settings.</p> <p>Signalling Protocol: <input type="text" value="SIP"/> (Notice: It will be taken effect after reboot.)</p> <p>Interface Name: <input type="text" value="veip0.2"/> (Note: You must restart the VoIP service for the settings to take effect.)</p> <p>Region : <input type="text" value="CZH - CZECH"/> (Note: You must restart the VoIP service for the settings to take effect.)</p> <p>Proxy Server: <input type="text" value="10.150.0.1"/> Port: <input type="text" value="5060"/></p> <p>External Proxy Server: <input type="text" value="10.150.0.1"/> Port: <input type="text" value="5060"/></p> <p>Registering Server: <input type="text" value="10.150.0.1"/> Port: <input type="text" value="5060"/></p> <p>Port Base Settings</p> <p>Note: User ID maybe phone number or username of SIP server, ask it from your ISP, please.</p> <table border="1"> <thead> <tr> <th>Line</th> <th>Phone1</th> <th>Phone2</th> </tr> </thead> <tbody> <tr> <td>User ID</td> <td><input type="text" value="103"/></td> <td><input type="text" value="104"/></td> </tr> <tr> <td>Display name</td> <td><input type="text" value="103"/></td> <td><input type="text" value="104"/></td> </tr> <tr> <td>Auth Username</td> <td><input type="text" value="103"/></td> <td><input type="text" value="104"/></td> </tr> <tr> <td>Auth Password</td> <td><input type="text" value="***"/></td> <td><input type="text" value="***"/></td> </tr> <tr> <td>ptime Settings</td> <td><input type="text" value="20"/></td> <td><input type="text" value="20"/></td> </tr> </tbody> </table> <p style="text-align: center;"> <input type="button" value="Apply"/> <input type="button" value="Start"/> <input type="button" value="Stop"/> <input type="button" value="Default Settings"/> </p> | | | | | | | Line | Phone1 | Phone2 | User ID | <input type="text" value="103"/> | <input type="text" value="104"/> | Display name | <input type="text" value="103"/> | <input type="text" value="104"/> | Auth Username | <input type="text" value="103"/> | <input type="text" value="104"/> | Auth Password | <input type="text" value="***"/> | <input type="text" value="***"/> | ptime Settings | <input type="text" value="20"/> | <input type="text" value="20"/> |
| Line | Phone1 | Phone2 | | | | | | | | | | | | | | | | | | | | | | | |
| User ID | <input type="text" value="103"/> | <input type="text" value="104"/> | | | | | | | | | | | | | | | | | | | | | | | |
| Display name | <input type="text" value="103"/> | <input type="text" value="104"/> | | | | | | | | | | | | | | | | | | | | | | | |
| Auth Username | <input type="text" value="103"/> | <input type="text" value="104"/> | | | | | | | | | | | | | | | | | | | | | | | |
| Auth Password | <input type="text" value="***"/> | <input type="text" value="***"/> | | | | | | | | | | | | | | | | | | | | | | | |
| ptime Settings | <input type="text" value="20"/> | <input type="text" value="20"/> | | | | | | | | | | | | | | | | | | | | | | | |

Signalling Protocol: - протокол сигнализаций

Interface Name: - имя подключения, через которое будет работать VoIP

Region : - регион подключения

Proxy Server: - прокси сервер

External Proxy Server: - добавочный прокси сервер

Registering Server: - сервер регистрации

Port Base Settings – настройки телефонных портов.

Line Phone1 Phone2

User ID – номер телефона

Display name – отображаемое имя

Auth Username – Имя пользователя для аутентификации на сервере VoIP

Auth Password – пароль.

ptime Settings - размер RTP-пакета

4.6. VoIP Advanced – продвинутые настройки VoIP

| Application | Status | Network | Security | Application | Management | Diagnose | Help |
|-------------|--------|---------|----------|-------------|-------------|----------|-------|
| | NAT | UPNP | VoIP | IGMP | MAC Limited | MLD | Other |

General Settings

VoIP Advanced

VoIP Debug

VoIP advanced settings

SIP Transport Protocol:

T38 Fax Enable:

Echo Canceller Enable:

Dial Plan:

DTMF Mode:

PRC2833PT(96~127):

HeartBeat Enable:

HeartBeat Cycle:

HeartBeat Count:

Outgain:

Ingain:

SIP Register Interval: s

Reregister failed and retry interval: s

Call Progress Tone

Dial Tone Duration (10~20): s

Short Digit Timer (4~30): s

Busy tone Duration (30~180): s

Howler tone Duration (30~180): s

RingBack Tone Duration (30~120): s

RingMax Duration(30~120): s

CallWait Duration(12~30): s

Codec Priority Settings

| | |
|--------------------|--|
| Encoder priority 1 | <input type="text" value="G. 711MuLaw"/> |
| Encoder priority 2 | <input type="text" value="G. 711ALaw"/> |
| Encoder priority 3 | <input type="text" value="G. 729a"/> |
| Encoder priority 4 | <input type="text" value="G. 723. 1"/> |

Call Addition Functions

| Line | Line1 | Line2 |
|---------------------|-------------------------------------|-------------------------------------|
| Call Wait | <input type="checkbox"/> | <input type="checkbox"/> |
| Call Conference | <input type="checkbox"/> | <input type="checkbox"/> |
| Warm Line | <input type="checkbox"/> | <input type="checkbox"/> |
| Warm Line Timeout | <input type="text" value="0"/> | <input type="text" value="0"/> |
| Warm Line Number | <input type="text"/> | <input type="text"/> |
| CfwdUncond | <input type="checkbox"/> | <input type="checkbox"/> |
| CfwdUncond Number | <input type="text"/> | <input type="text"/> |
| CfwdBusy | <input type="checkbox"/> | <input type="checkbox"/> |
| CfwdBusy Number | <input type="text"/> | <input type="text"/> |
| CfwdNoAns | <input type="checkbox"/> | <input type="checkbox"/> |
| CfwdNoAns Timeout | <input type="text" value="30"/> | <input type="text" value="30"/> |
| CfwdNoAns Number | <input type="text"/> | <input type="text"/> |
| Call Transfer | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Unattended(E/F/0~9) | <input type="text" value="E77"/> | <input type="text" value="E77"/> |
| Attended(E/F/0~9) | <input type="text" value="E78"/> | <input type="text" value="E78"/> |

RTP Transfer Setting

| Line | Line1 | Line2 |
|------------|-----------------------------------|-----------------------------------|
| Audio port | <input type="text" value="4000"/> | <input type="text" value="4010"/> |
| T.38 port | <input type="text" value="5000"/> | <input type="text" value="5010"/> |

4.7. VoIP Debug – отладка VoIP

The screenshot shows the 'Application' menu with sub-items: NAT, UPNP, VoIP, IGMP, MAC Limited, MLD, and Other. The 'VoIP' sub-item is selected. On the left sidebar, 'General Settings', 'VoIP Advanced', and 'VoIP Debug' are listed. The main content area is titled 'VoIP Debug Testing' and includes the following elements:

- Buttons for 'VoIP General Settings' and 'VoIP Advanced'.
- Fields for 'SIP log server IP Address:' and 'SIP log server port:' (set to 0).
- A dropdown menu for 'Vodsl Console Log Level:' set to 'Error'.
- A table for configuring VoIP lines:

| Line | 1 | 2 |
|--------------|-------------------------------------|-------------------------------------|
| VAD support | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ingress gain | 0 | 0 |
| Egress gain | 0 | 0 |

Below the table are buttons for 'Start', 'Stop', and 'Apply'.

4.8. IGMP – Настройки IGMP

4.8.1 IGMP SNOOPING – включение функции IGMP SNOOPING

The screenshot shows the 'Application' menu with sub-items: NAT, UPNP, VoIP, IGMP, MAC Limited, MLD, and Other. The 'IGMP' sub-item is selected. On the left sidebar, 'IGMP SNOOPING' and 'IGMP PROXY' are listed. The main content area is titled 'IGMP Snooping Setting' and includes the following elements:

- A descriptive text: 'This page allows you to enable or disable the IGMP Snooping function.'
- Two checked checkboxes: 'Enable IGMP Snooping' and 'Ignore SSM Limiting'.
- A 'Save/Apply' button.

4.9. IGMP PROXY

| Application | Status | Network | Security | Application | Management | Diagnose | Help | | | | |
|---|---|---------|----------|-------------|-------------|----------|-------|------------------|-------------------|--------------------------|-------------------------------------|
| | NAT | UPNP | VoIP | IGMP | MAC Limited | MLD | Other | | | | |
| IGMP SNOOPING IGMP PROXY | <p>IGMP Proxy Setting</p> <p>The IGMP proxy function allows users in LAN to use the internet multimedia services.</p> <p>IGMP Setting</p> <p>This page allows you to enable IGMP proxy for a specified WAN connection.</p> <table border="1"> <tr> <td>Internet Connect</td> <td>Enable IGMP Proxy</td> </tr> <tr> <td>2_VOIP_INTERNET_R_VID_55</td> <td><input checked="" type="checkbox"/></td> </tr> </table> <p>Default IGMP Version: <input type="text" value="v2"/></p> <p>Save/Apply</p> | | | | | | | Internet Connect | Enable IGMP Proxy | 2_VOIP_INTERNET_R_VID_55 | <input checked="" type="checkbox"/> |
| Internet Connect | Enable IGMP Proxy | | | | | | | | | | |
| 2_VOIP_INTERNET_R_VID_55 | <input checked="" type="checkbox"/> | | | | | | | | | | |

Настройки проксирования для IPTV. Выбор подключения, в котором будет работать функционал IGMP PROXY

4.10. MAC Limited

| Application | Status | Network | Security | Application | Management | Diagnose | Help |
|-----------------------------|---|---------|----------|-------------|-------------|----------|-------|
| | NAT | UPNP | VoIP | IGMP | MAC Limited | MLD | Other |
| MAC Limited | <p>MAC Aging time</p> <p>MAC Aging: <input type="text" value="300"/></p> <p>MAC Address Limited</p> <p>Total: <input type="text" value="4096"/></p> <p>LAN1: <input type="text" value="0"/></p> <p>LAN2: <input type="text" value="0"/></p> <p>LAN3: <input type="text" value="0"/></p> <p>LAN4: <input type="text" value="0"/></p> <p>Save/Apply</p> | | | | | | |

Ограничение времени жизни и количества мак адресов на портах устройства

4.11. MLD

| Application | Status | Network | Security | Application | Management | Diagnose | Help |
|---|---|---------|----------|-------------|-------------|----------|-------|
| | NAT | UPNP | VoIP | IGMP | MAC Limited | MLD | Other |
| MLD SNOOPING MLD PROXY | <p>MLD Snooping Settings</p> <p>The Multicast Listener Discovery (MLD) Snooping feature for IPv6 can be enabled here. MLD is used by IPv6 routers for discovering Multicast listeners on a directly attached link.</p> <p><input checked="" type="checkbox"/> MLD Snooping Enabling</p> <p style="text-align: right;">Save/Apply</p> | | | | | | |

Настройки MLD

4.12. Other

4.12.1 Family Storage – файловое хранилище

| Application | Status | Network | Security | Application | Management | Diagnose | Help |
|--|---|---------|----------|-------------|-------------|----------|-------|
| | NAT | UPNP | VoIP | IGMP | MAC Limited | MLD | Other |
| Family Storage IPTV | <p>Server Status</p> <p>FTP Server: On Refresh</p> <p>USB Download</p> <p>File storage directory: NO USB storage device found /xdown</p> <p>Username: <input type="text"/> Password: <input type="text"/> Port: <input type="text"/></p> <p>Remote URL: <input type="text"/> Download</p> | | | | | | |

4.13. IPTV – настройки вещания.

| Application | Status | Network | Security | Application | Management | Diagnose | Help |
|--|--|---------|----------|-------------|-------------|----------|-------|
| | NAT | UPNP | VoIP | IGMP | MAC Limited | MLD | Other |
| Family Storage IPTV | <p>Public multicast VLAN</p> <p>Please select the public multicast VLAN network connection, input the the public multicast VLAN ID. click "Save/Apply" and reboot the device, then you are able to enable/disable the public multicast VLAN function.</p> <p>A value of -1 indicates to disable the public multicast VLAN function.</p> <p>Connection Name: 2_VOIP_INTERNET_R_VID_55 ▾</p> <p>Public multicast VLAN: <input type="text" value="-1"/></p> <p>Cross VLAN Enable: Disable ▾</p> <p style="text-align: right;">Save/Apply</p> | | | | | | |

5. ЗАКЛАДКА MANAGEMENT

5.1. User Manage – настройка пользователей для входа на устройство.

| Management | Status | Network | Security | Application | Management | Diagnose | Help |
|-------------|---|---------------|----------|-------------|------------|----------|------|
| | User Manage | Device Manage | Log File | Maintain | | | |
| User Manage | <p>Access Control -- Password</p> <p>Router is controlled by the following three accounts: Admin, Support and User.</p> <p>Admin account is able to browse and modify the configuration of your DSL router .</p> <p>Support account is used to allow an ISP technician to access your DSL Router for maintenance and to run diagnostics.</p> <p>User account is able to view configuration and status, and do some basic settings.</p> <p>Password is not more than 16 characters. Click "Save/Apply" to modify or create a password. Note: password is not allowed to contain space.</p> <p>Username: <input type="text" value="admin"/></p> <p>Current Login User password: <input type="password"/></p> <p>New Password: <input type="password"/></p> <p>Password Confirm: <input type="password"/></p> <p style="text-align: right;"><input type="button" value="Save/Apply"/></p> | | | | | | |

5.2. Device Manage – управление устройством

5.2.1 Device Reboot – перезагрузка устройства

| Management | Status | Network | Security | Application | Management | Diagnose | Help |
|---|---|---------------|----------|-------------|------------|----------|------|
| | User Manage | Device Manage | Log File | Maintain | | | |
| <ul style="list-style-type: none"> Device Reboot Update Image USB Backup Configure Manage Load Default | <p style="text-align: center;">Press the button to reboot your router.</p> <p style="text-align: center;"><input type="button" value="Reboot"/></p> | | | | | | |

5.3. Update Image – обновление прошивки

| Management | Status | Network | Security | Application | Management | Diagnose | Help |
|------------|-------------|---------------|----------|-------------|------------|----------|------|
| | User Manage | Device Manage | Log File | Maintain | | | |

Tools -- Update Software

Step 1: Obtain an updated software image file from your ISP.

Step 2: Enter the path to the image file location in the box below or click the "Browse" button to locate the image file.

Step 3: Click the "Update Software" button once to upload the new image file.

NOTE: The update process takes about 2 minutes to complete, and your DSL Router will reboot.

Software File Name:

5.4. USB Backup – сохранение файла конфигурации на USB накопитель

| Management | Status | Network | Security | Application | Management | Diagnose | Help |
|------------|-------------|---------------|----------|-------------|------------|----------|------|
| | User Manage | Device Manage | Log File | Maintain | | | |

Rapid Recover: Enable Disable

Select the USB partition: ▾

5.5. Configure Manage – резервное копирование и восстановление файла конфигурации

| Management | Status | Network | Security | Application | Management | Diagnose | Help |
|------------|-------------|---------------|----------|-------------|------------|----------|------|
| | User Manage | Device Manage | Log File | Maintain | | | |

Configuration -- Backup

Backup the configurations of router and save as file in PC.

Configure -- restore

Restore the configurations of router from a file in PC.
Note: Restore will take about 30s, the router will reboot automatic after restore.

Configure file:

5.6. Load Default – восстановление значений по умолчанию

| Management | Status | Network | Security | Application | Management | Diagnose | Help |
|---|---|---------------|----------|-------------|------------|----------|------|
| | User Manage | Device Manage | Log File | Maintain | | | |
| Device Reboot Update Image USB Backup Configure Manage Load Default | <p>Restore to default settings</p> <p>Restore the router to default settings.</p> <p style="text-align: right;">Load Default</p> | | | | | | |

5.7. Log File

| Management | Status | Network | Security | Application | Management | Diagnose | Help |
|---|---|---------------|----------|-------------|------------|----------|------|
| | User Manage | Device Manage | Log File | Maintain | | | |
| Log Log Info | <p>System -- Configuration</p> <p>If log mode is enabled, the system will start logging all selected events. Events whose log levels are greater than than your selection will be included. Display level works in the same manner as log level. If "Remote" or "Both" is selected, events will be sent to the specific IP and UDP port where a remote syslog server is to record logging info. If "Local" or "Both" is selected, events will be saved locally on the CPE.</p> <p>Click "Save/Apply" to configure the system log options.</p> <p>Log: <input checked="" type="radio"/> Disable <input type="radio"/> Enable</p> <p>Log Level: <input type="text" value="Debugging"/></p> <p>Display Level: <input type="text" value="Error"/></p> <p>Mode: <input type="text" value="Local"/></p> <p style="text-align: right;">Save/Apply</p> | | | | | | |

Включение логирования и настройки уровня логирования

5.8. Maintain - поддержка

| Management | Status | Network | Security | Application | Management | Diagnose | Help |
|--------------------------|---|---------------|----------|-------------|------------|----------|------|
| | User Manage | Device Manage | Log File | Maintain | | | |
| Maintain | <p>Report end of maintenance</p> <p>Click "End of maintenance" button, the new data will be reported to server automatically.</p> <p style="text-align: right;">End of maintenance</p> | | | | | | |

6. ЗАКЛАДКА DIAGNOSE

6.1. Line Diagnose

Diagnose | Status | Network | Security | Application | Management | **Diagnose** | Help

Diagnose

- Line Diagnose
- PING Diagnose
- Tracert Diagnose
- Inform reported

Line Diagnose

The contents can be diagnose is listed in the below table.If the status is "fail",you can click on the "Re-diagnose" button,to confirm whether the status is always "fail".

Diagnose the network connect status

| | | |
|----------------------------|---------------------|----------------------|
| Test your eth0 Connection: | PASS | Help |
| Test your eth1 Connection: | FAIL | Help |
| Test your eth2 Connection: | FAIL | Help |
| Test your eth3 Connection: | FAIL | Help |
| WLAN status: | PASS FAIL FAIL FAIL | Help |

[Re-diagnose](#)

Проверка состояния сетевых подключений

6.2. PING Diagnose

Diagnose | Status | Network | Security | Application | Management | **Diagnose** | Help

Diagnose

- Line Diagnose
- PING Diagnose
- Tracert Diagnose
- Inform reported

Ping Diagnosis

This page is for ping diagnosis

Interface:

Destination IP address or host name:

Use IP type:

[Start](#)

Ping Test Result

| | |
|----------|-----|
| Send: | 0 |
| Receive: | 0 |
| Minimum: | 0ms |
| Average: | 0ms |
| Maximum: | 0ms |

Диагностика доступности сетевых ресурсов посредством утилиты PING

6.3. Tracert Diagnose

Трассировка маршрута до указанного сетевого ресурса посредством утилиты Tracert

6.4. Inform reported

6.5. Закладка Help

Страница помощи по различным настройкам устройства.