

1.17 Backup Routes

Using the configuration form on the *Backup Routes* page can be set backing up primary connection by other connections to internet/mobile network. For each back up connection can be defined a priority. Own switching is done based on set priorities and state of the connection (for *Primary LAN* and *Secondary LAN*).

If *Enable backup routes switching* option is checked, the default route is selected according to the settings below. Namely according to status of enabling each of backup route (i.e. *Enable backup routes switching for Mobile WAN*, *Enable backup routes switching for PPPoE*, *Enable backup routes switching for WiFi STA*, *Enable backup routes switching for Primary LAN* or *Enable backup routes switching for Secondary LAN*), according to explicitly set priorities and according to status of connection check (if it is enabled). In addition, network interfaces belonging to individual backup routes have checked a flag *RUNNING*. This check fixes for example disconnecting of an ethernet cable.

If *Enable backup routes switching* option is not checked, Backup routes system operates in the so-called backward compatibility mode. The default route is selected based on implicit priorities according to the status of enabling settings for each of network interface, as the case may be enabling services that set these network interfaces. Names of backup routes and corresponding network interfaces in order of implicit priorities:

- Mobile WAN (pppX, usbX)
- PPPoE (ppp0)
- Secondary LAN (eth1)
- Primary LAN (eth0)

Example:

Secondary LAN is selected as the default route only if *Create connection to mobile network* option is not checked on the *Mobile WAN* page, alternatively if *Create PPPoE connection* option is not checked on the *PPPoE* page. To select the Primary LAN it is also necessary not to be entered *IP address* for Secondary LAN and must not be enabled *DHCP Client* for Secondary LAN.

Item	Description
Priority	Priority for the type of connection
Ping IP Address	Destination IP address of ping queries to check the connection (address can not be specified as a domain name)
Ping Interval	The time intervals between sent ping queries

Table 30: Backup Routes

All changes in settings will be applied after pressing the *Apply* button.

Backup Routes Configuration	
<input type="checkbox"/>	Enable backup routes switching
<input type="checkbox"/>	Enable backup routes switching for Mobile WAN
Priority	<input type="text" value="1st"/>
<input type="checkbox"/>	Enable backup routes switching for PPPoE
Priority	<input type="text" value="1st"/>
Ping IP Address	<input type="text"/>
Ping Interval	<input type="text"/> sec
<input type="checkbox"/>	Enable backup routes switching for WiFi STA
Priority	<input type="text" value="1st"/>
Ping IP Address	<input type="text"/>
Ping Interval	<input type="text"/> sec
<input type="checkbox"/>	Enable backup routes switching for Primary LAN
Priority	<input type="text" value="1st"/>
Ping IP Address	<input type="text"/>
Ping Interval	<input type="text"/> sec
<input type="checkbox"/>	Enable backup routes switching for Secondary LAN
Priority	<input type="text" value="1st"/>
Ping IP Address	<input type="text"/>
Ping Interval	<input type="text"/> sec
<input type="button" value="Apply"/>	

Figure 27: Backup Routes

1.18 Firewall configuration

The first security element which incoming packets must pass is check of enabled source IP addresses and destination ports. It can be specified IP addresses from which you can remotely access the router and the internal network connected behind a router. If the *Enable filtering of incoming packets* item is checked (located at the beginning of the configuration form *Firewall*), this element is enabled and accessibility is checked against the table with IP addresses. This means that access is permitted only addresses specified in the table. It is possible to define up to eight remote accesses. There are the following parameters: