
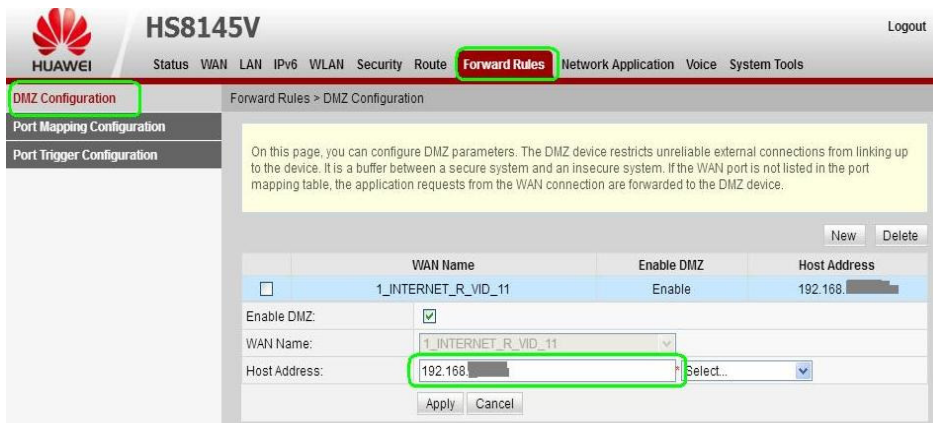
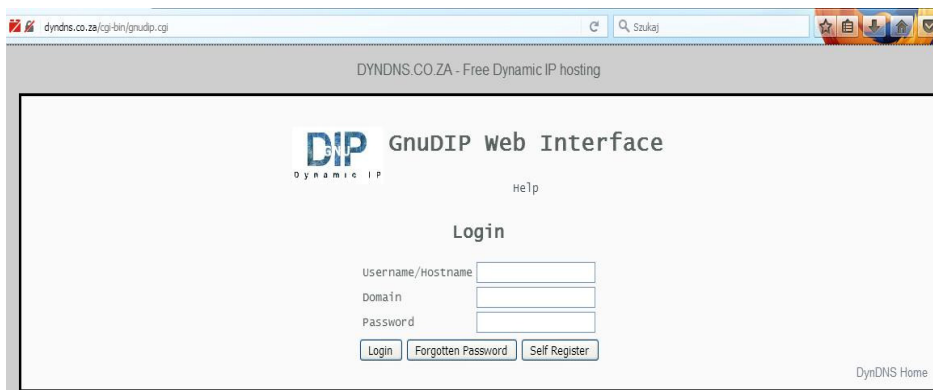


# HARDWARE AND SOFTWARE REQUIREMENTS

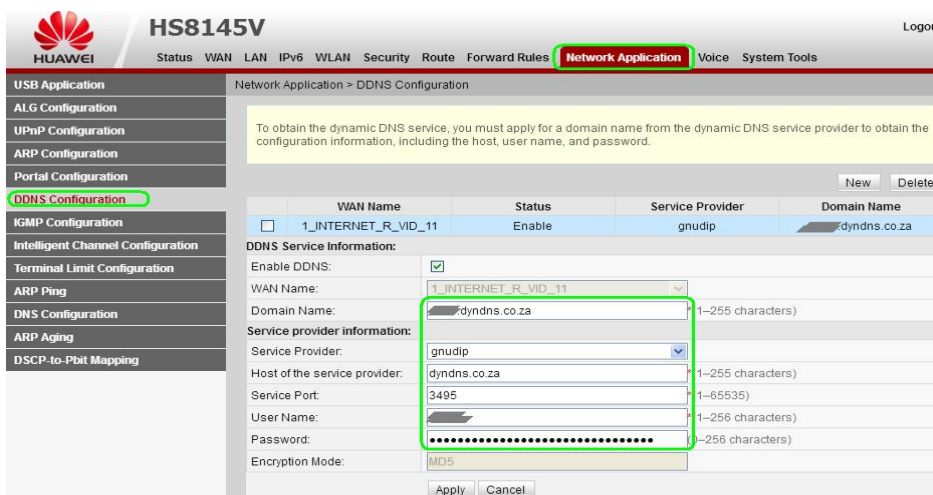
1. The software monitoring the recuperators works only with controllers that have at least MSR23v2.2x software version (press the  icon)
2. The home Internet network must have a "fixed external IP" or router must be configured to use the so-called "Dynamic DNS". Additionally, depending on the IP type, you need to configure the appropriate port forwarding. Please contact your local internet provider regarding this matter.
3. Sample configuration of the HUAWEI router for fixed IP and DDNS
  - a. in the case of "fixed IP" configuration is only in the "DMZ Configuration" option by setting the internal IP address at which our controller is logged into the home Internet network. In the example below, this is address 192.168.xxx.xxx



- b. for Dynamic DNS, configuration must be done in two steps. At the beginning you have to register in one of many DDNS services. The configuration below is based on the example of one of the free [dyndns.co.za](http://dyndns.co.za) services (fig. below)



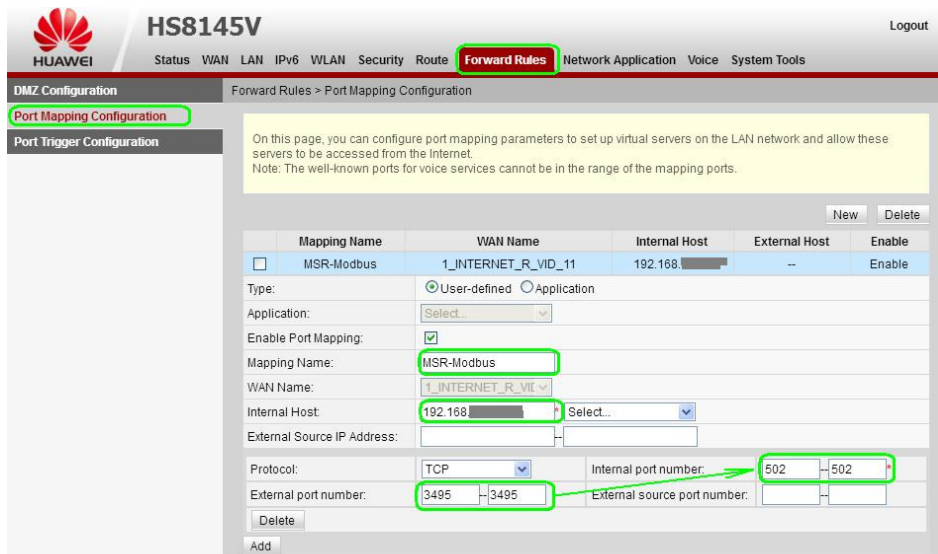
The router must be set up in two stages. In the tab "Network Application" -> "DDNS Configuration", enter the data of the registered DDNS service.



In the **Domain Name** option, enter the address of your registered service, e.g. [abcdefg.dyndns.co.za](http://abcdefg.dyndns.co.za). At **Service Provider and Host of the .....** as shown.

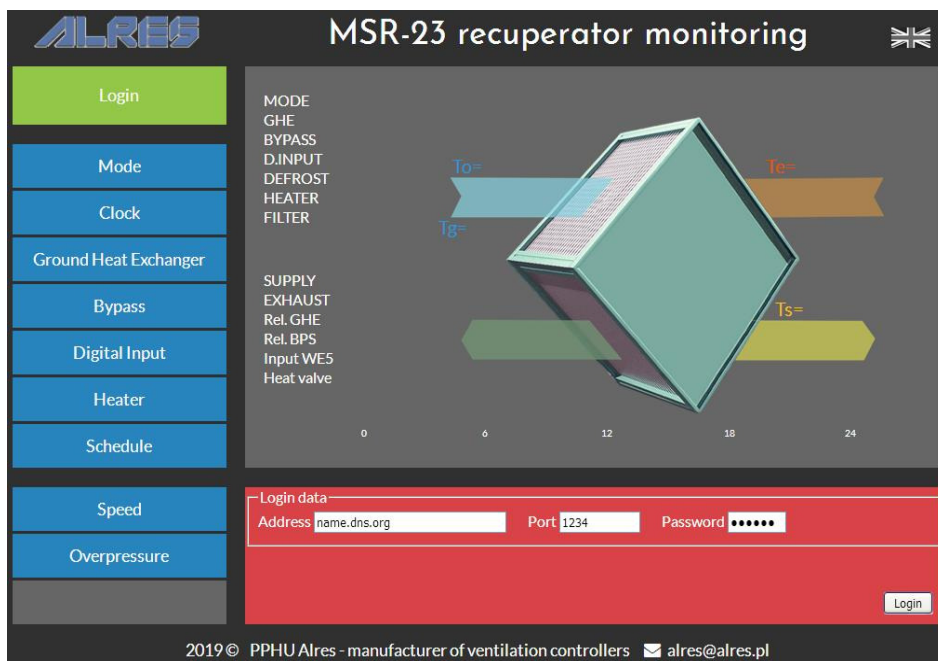
In the **Service Port** option, enter the port number that is recommended by your selected DDNS service. For this example, the service recommends port 3495. **User Name and Password** as for service registration

In the tab Forward Rules -> Port Mapping Configuration we enter port forwarding. In this example, this will be a redirection from port 3495 (DDNS provider) to controller port 502



## CONFIGURATION OF THE MONITORING SOFTWARE

1. Run application (english version) on site [www.alres.pl/en/controller.html](http://www.alres.pl/en/controller.html) or lithuanian on site [www.alres.pl/lt/regulatorius.html](http://www.alres.pl/lt/regulatorius.html)
2. On screen You can see login mode as below.



3. In the **Address** field, enter the IP of the our home router. For fixed IP it will be number address (e.g. 64.245.93.111), for the Dynamic DNS will be our registered name address (e.g. [abcdefg.dyndns.co.za](http://abcdefg.dyndns.co.za)).  
In the **Port** field, enter the number depending on the address type. If we use a fixed IP, then enter 502 as the port number. If You use a dynamic address, the port number should be as recommended by the ddns service provider.  
In the **Password** field, enter the same code that is in the controller in the WiFi configuration option (the code is 6 characters)