

System Watchdog

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This document applies to V2.9

Table of Contents

[Table of Contents](#)

[Summary](#)

[Specifications](#)

[Hardware Watchdog Management](#)

[Description](#)

[Property Description](#)

[Example](#)

General Information

Summary

System watchdog feature is needed to reboot the system in case of software failures.

Specifications

Packages required: *system*

License required: *level1*

Home menu level: */system watchdog*

Hardware usage: *Not significant*

Hardware Watchdog Management

Home menu level: */system watchdog*

Description

This menu allows to configure system to reboot on kernel panic, when an IP address does not respond, or in case the system has locked up. Software watchdog timer is used to provide the last option, so in very rare cases (caused by hardware malfunction) it can lock up by itself. There is a hardware watchdog device available in RouterBOARD hardware, which can reboot the system in any case.

Property Description

reboot-on-failure (yes | no; default: **no**) - whether to reboot on kernel panic

watch-address (*IP address*; default: **none**) - if set, the system will reboot in case 6 sequential pings to the given IP address (sent once per 10 seconds) will fail

- **none** - disable this option

watchdog-timer (yes | no; default: **no**) - whether to reboot if system is unresponsive for a minute

no-ping-delay (*time*; default: **5m**) - specifies how long after reboot not to test and ping

watch-address. The default setting means that if watch-address is set and is not reachable, the router will reboot about every 6 minutes.

automatic-supout (yes | no; default: **yes**) - when software failure happens, a file named "autosupout.rif" is generated automatically. The previous "autosupout.rif" file is renamed to "autosupout.old.rif"

auto-send-supout (yes | no; default: **no**) - after the support output file is automatically generated, it can be sent by email

send-email-from (*text*; default: "") - e-mail address to send the support output file from. If not set, the value set in /tool e-mail is used

send-email-to (*text*; default: "") - e-mail address to send the support output file to

send-smtp-server (*text*; default: "") - SMTP server address to send the support output file through. If not set, the value set in /tool e-mail is used

Example

To make system generate a support output file and sent it automatically to **support@example.com** through the **192.0.2.1** in case of a software crash:

```
[admin@MikroTik] system watchdog> set auto-send-supout=yes \  
\... send-to-email=support@example.com send-smtp-server=192.0.2.1  
[admin@MikroTik] system watchdog> print  
  reboot-on-failure: yes  
    watch-address: none  
  watchdog-timer: yes  
    no-ping-delay: 5m  
  automatic-supout: yes  
  auto-send-supout: yes  
  send-smtp-server: 192.0.2.1  
    send-email-to: support@example.com  
[admin@MikroTik] system watchdog>
```