

# MAC Level Access (Telnet and Winbox)

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## General Information

### Summary

MAC telnet is used to provide access to a router that has no IP address set. It works just like IP telnet. MAC telnet is possible between two MikroTik RouterOS routers only.

### Specifications

Packages required: *system*

License required: *level1*

Home menu level: */tool, /tool mac-server*

Standards and Technologies: *MAC Telnet*

Hardware usage: *Not significant*

### MAC Telnet Server

Home menu level: */tool mac-server*

### Property Description

**interface** (*name* | *all*; default: **all**) - interface name to which the mac-server clients will connect

- **all** - all interfaces

## Notes

There is an interface list in this submenu level. If you add some interfaces to this list, you allow MAC telnet to that interface. Disabled (**disabled=yes**) item means that interface is not allowed to accept MAC telnet sessions on that interface. **all** interfaces is the default setting to allow MAC telnet on any interface.

## Example

To enable MAC telnet server on **ether1** interface only:

```
[admin@MikroTik] tool mac-server> print
Flags: X - disabled
#   INTERFACE
0   all
[admin@MikroTik] tool mac-server> remove 0
[admin@MikroTik] tool mac-server> add interface=ether1 disabled=no
[admin@MikroTik] tool mac-server> print
Flags: X - disabled
#   INTERFACE
0   ether1
[admin@MikroTik] tool mac-server>
```

## MAC WinBox Server

Home menu level: */tool mac-server mac-winbox*

### Property Description

**interface** (*name* | *all*; default: **all**) - interface name to which it is allowed to connect with Winbox using MAC-based protocol

- **all** - all interfaces

## Notes

There is an interface list in this submenu level. If you add some interfaces to this list, you allow MAC Winbox to that interface. Disabled (**disabled=yes**) item means that interface is not allowed to accept MAC Winbox sessions on that interface.

## Example

To enable MAC Winbox server on **ether1** interface only:

```
[admin@MikroTik] tool mac-server mac-winbox> print
Flags: X - disabled
#   INTERFACE
0   all
[admin@MikroTik] tool mac-server mac-winbox> remove 0
[admin@MikroTik] tool mac-server mac-winbox> add interface=ether1 disabled=no
[admin@MikroTik] tool mac-server mac-winbox> print
Flags: X - disabled
#   INTERFACE
0   ether1
```

```
[admin@MikroTik] tool mac-server mac-winbox>
```

## Monitoring Active Session List

Home menu level: */tool mac-server sessions*

### Property Description

**interface** (*read-only: name*) - interface to which the client is connected to

**src-address** (*read-only: MAC address*) - client's MAC address

**uptime** (*read-only: time*) - how long the client is connected to the server

### Example

To see active MAC Telnet sessions:

```
[admin@MikroTik] tool mac-server sessions> print
# INTERFACE SRC-ADDRESS      UPTIME
0 wlan1      00:0B:6B:31:08:22 00:03:01
[admin@MikroTik] tool mac-server sessions>
```

## MAC Scan

Command name: */tool mac-scan*

### Description

This command discovers all devices, which support MAC telnet protocol on the given network.

### Property Description

(*name*) - interface name to perform the scan on

## MAC Telnet Client

Command name: */tool mac-telnet*

### Property Description

(*MAC address*) - MAC address of a compatible device

### Example

```
[admin@MikroTik] > /tool mac-telnet 00:02:6F:06:59:42
Login: admin
Password:
Trying 00:02:6F:06:59:42...
Connected to 00:02:6F:06:59:42

MMM      MMM      KKK      TTTTTTTTTTT      KKK
MMMM     MMMM     KKK      TTTTTTTTTTT      KKK
MMM MMMM MMM III  KKK  KKK  RRRRRR      OOOOOO      TTT      III  KKK  KKK
MMM MM  MMM  III  KKKKK  RRR  RRR  OOO  OOO      TTT      III  KKKKK
```

```
MMM      MMM  III  KKK KKK  RRRRRR   OOO  OOO   TTT   III  KKK  KKK
MMM      MMM  III  KKK  KKK  RRR  RRR   OOOOOO   TTT   III  KKK  KKK
```

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Terminal linux detected, using multiline input mode  
[admin@MikroTik] >