
Nokia M10

ADSL router

Release note v.5.1.3 R2

1 About this document

This document describes the features which have been added to the M10 software version 5.1.3 R2.

2 New features introduced in 5.1.3 R2

The following features have been added to the software version 5.1.3 R2:

- changed admin-disable command
- dedicated management channel
- improved PPP connection handshake procedure.

2.1 Changed admin-disable command

A new **Admin Restrictions** command has been added. It replaces the commands which were used to control the management of the M10. You can allow management only through the desired ports only. With this command you can, for example, disable management through the Ethernet port. The restrictions can be configured through the following CLI commands:

| | |
|----------------|--|
| Command | Enable/disable the management through Ethernet port |
| Description | Enables/disables the management of Nokia M10 through the Ethernet port. |
| Syntax | set ip ethernet restrictions [none admin-disabled] |
| Arguments | The <code>restrictions</code> argument is used to enable/disable management through the Ethernet port. <code>None</code> means that M10 can be managed through the Ethernet port and <code>admin-disabled</code> disables the possibility to manage M10 through the Ethernet port. |
| Example | m10> set ip ethernet restrictions admin-disabled |

You can also disable management through the Ethernet port with your Web browser (see Figure 1) by clicking the **Admin-Disabled** radio button.

Note If you disable management through the Ethernet port and reboot M10 you can no longer manage M10 with your local Web browser.

Router Configuration

System Name:

Ethernet Port

Local Address:

Net Mask:

Broadcast Address:

Admin Restrictions: None Admin-Disabled

Rip-send: off v1 v2 v1-compatible

Rip-receive: off v1 v2 v1-compatible

Routing Policy (ATM only)

VC-to-VC Routing: on off

Default Gateway

Gateway: on off

Interface:

Default Address:

DNS Setup

Domain Name:

Primary Nameserver Address:

(Optional) Secondary Nameserver Address:

DHCP Settings

| | | | |
|----------------|--|---|-----------------------------------|
| Mode : | <input type="radio"/> off | <input checked="" type="radio"/> server | <input type="radio"/> relay-agent |
| Start Address | <input type="text" value="192.168.1.1"/> | | |
| End Address | <input type="text" value="192.168.1.254"/> | | |
| Lease Time | <input type="text" value="00:01:00:00"/> | | |
| Server Address | <input type="text"/> | | |

Server Port Setup

Web-HTTP Port:

Telnet Port:

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Network Address Translation (NAT) Setup

[Go to NAT Setup](#)

Static Routes

| | Destination | Netmask | Gateway |
|------------------------------------|----------------------|----------------------|----------------------|
| <input type="button" value="Add"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Figure 1 Disabling management through the Ethernet port

| Command | Enable/disable the management through PPP link |
|----------------|--|
| Description | Enables/disables the management of Nokia M10 through the specified ATM link using ppp-vcmux encapsulation. |
| Syntax | set ip ip-ppp {vccx} restrictions [none admin-disabled admin-only] |
| Arguments | The first argument identifies the ATM channel (vccx, x = 1 ... 8). If there is only one ATM channel using ppp-vcmux encapsulation you can leave the argument vccx out. The second argument is used to configure restrictions. None means that there are no management restrictions, admin-disabled disables the possibility to manage M10 through this link, admin-only makes this link the dedicated management channel which can only be used for management purposes. |
| Example | m10> set ip ip-ppp vcc2 restrictions admin-disabled |

| Command | Enable/disable the management through channels using IP over ATM or bridged encapsulations |
|----------------|--|
| Description | Enables/disables the management of Nokia M10 through the specified ATM link using ip-llc, ip-vcmux, ether-llc, or ether-vcmux encapsulation. This command can be also used to configure a dedicated management channel. |
| Syntax | set ip dsl {vccx} restrictions [none admin-disabled admin-only] |
| Arguments | The first argument identifies the ATM channel (vccx, x = 1 ... 8). If there is only one ATM channel using one of these encapsulations you can leave the argument vccx out. The second argument is used to configure restrictions. None means that there are no restrictions, admin-disabled disables the possibility to manage M10 through this port, admin-only makes this channel the dedicated management channel which can only be used for management purposes. |
| Example | m10> set ip dsl vcc2 restrictions admin-only |

The same commands are also available in the step mode.

2.2 Dedicated management channel

The operator or Internet service provider can establish a dedicated management channel to the M10. This channel provides access to the same management possibilities as the local CLI. When the management channel is enabled it cannot be used for other data transmission. Figure 2 shows the principle of the dedicated management channel.

In Figure 2 VCC1 is used for customers data transmission. Administration through this channel has been disabled. The operator or the service provider uses the VCC2 for management purposes only.

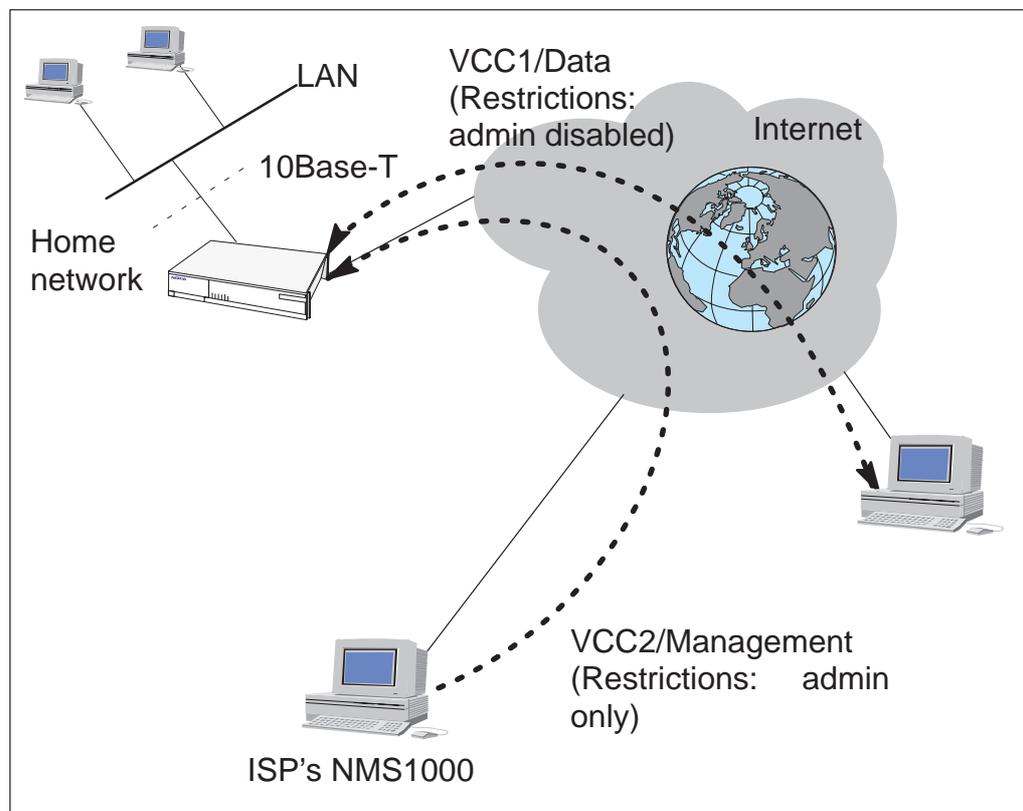


Figure 2 Dedicated management channel

2.2.1 Enabling the dedicated management channel

You can enable the dedicated management channel by configuring Admin restrictions as **admin-only** for the desired ATM channel. This can be done through CLI or with a Web browser. The corresponding CLI command is:

| Command | Enable/disable the management through channels using IP over ATM or bridged encapsulations |
|----------------|--|
| Description | Enables/disables the management of Nokia M10 through the specified ATM link using ip-llc, ip-vcmux, ether-llc, or ether-vcmux encapsulation. This command can be also used to configure a dedicated management channel. |
| Syntax | set ip dsl {vccx} restrictions [none admin-disabled admin-only] |
| Arguments | The first argument identifies the ATM channel (vccx, x = 1 ... 8). If there is only one ATM channel using one of these encapsulations you can leave the argument vccx out. The second argument is used to configure restrictions. None means that there are no restrictions, admin-disabled disables the possibility to manage M10 through this port, admin-only makes this channel the dedicated management channel which can only be used for management purposes. |
| Example | m10> set ip dsl vcc2 restrictions admin-only |

The same command is available in the step mode:

```
restrictions (none) [none|admin-disabled|  
admin-only]
```

You can also enable the dedicated management channel with a Web browser through the VCCx configuration page by clicking the **Admin-Only** radio button (see Figure 3).

VCC 1 Configuration

PPP over ATM (VC-muxed)

VPI [0 - 255]:
 VCI [0 - 65535]:

IP Settings

Option: On Off
 Local Address:
 Peer Address:
 Admin Restrictions: None Admin-Disabled Admin-Only
 Addr-Mapping: On Off

**** RIP ignored if Mapping on ****

Rip-send: off v1 v2 v1-compat
 Rip-receive: off v1 v2 v1-compat
 Flush Router: On Off
 PAP Authentication: on off
 PAP Username:
 PAP Password:
 CHAP Authentication: on off
 CHAP Username:
 CHAP Password:

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Static Routes

| | Destination | Netmask | Gateway |
|------------------------------------|----------------------|----------------------|----------|
| <input type="button" value="Add"/> | <input type="text"/> | <input type="text"/> | ppp-vcc1 |

Click Admin-Only to enable dedicated management channel.

Figure 3 VCCx configuration page

2.3 Improved PPP connection handshake procedure

The PPP connection handshake procedure has been improved. In earlier versions, during congestion in the Remote access node, the PPP connections handshake sometimes failed. This has now been fixed.