

## **OsmoSIPConnector VTY Reference**

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| <b>COLLABORATORS</b> |
|----------------------|

|               |  |                   |                  |
|---------------|--|-------------------|------------------|
|               | <i>TITLE :</i><br>OsmoSIPConnector VTY Reference |                   |                  |
| <i>ACTION</i> | <i>NAME</i>                                      | <i>DATE</i>       | <i>SIGNATURE</i> |
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# Contents

|          |   |          |
|----------|---|----------|
| <b>1</b> | <b>VTY reference</b>  | <b>1</b> |
| 1.1      | Common Commands   | 1        |
| 1.1.1    | end   | 2        |
| 1.1.2    | exit  | 2        |
| 1.1.3    | help  | 2        |
| 1.1.4    | list  | 2        |
| 1.1.5    | show running-config   | 3        |
| 1.1.6    | write   | 3        |
| 1.1.7    | write file  | 3        |
| 1.1.8    | write memory  | 3        |
| 1.1.9    | write terminal  | 4        |
| 1.2      | view  | 4        |
| 1.2.1    | enable  | 4        |
| 1.2.2    | logging color (0 1)   | 4        |
| 1.2.3    | logging disable   | 5        |
| 1.2.4    | logging enable  | 5        |
| 1.2.5    | logging filter all (0 1)  | 5        |
| 1.2.6    | logging level (s p m n c l a p c a l l g l o b a l l a p d l n p l m u x l m i l m i b l s m l c t r l l g t ...) | 6        |
| 1.2.7    | logging level force-all (debug info notice error fatal)   | 7        |
| 1.2.8    | logging level set-all (debug info notice error fatal)   | 8        |
| 1.2.9    | logging print category (0 1)  | 9        |
| 1.2.10   | logging print category-hex (0 1)  | 9        |
| 1.2.11   | logging print extended-timestamp (0 1)  | 10       |
| 1.2.12   | logging print file (0 1 basename) [last]  | 10       |
| 1.2.13   | logging print level (0 1)   | 11       |
| 1.2.14   | logging set-log-mask MASK   | 11       |
| 1.2.15   | logging timestamp (0 1)   | 11       |
| 1.2.16   | no logging level force-all  | 12       |
| 1.2.17   | show alarms   | 12       |
| 1.2.18   | show asciidoc counters  | 13       |

|        |   |    |
|--------|---|----|
| 1.2.19 | show calls . . . . .  | 13 |
| 1.2.20 | show calls summary . . . . .  | 13 |
| 1.2.21 | show history . . . . .  | 14 |
| 1.2.22 | show logging vty . . . . .  | 14 |
| 1.2.23 | show mncc-connection . . . . .  | 14 |
| 1.2.24 | show online-help . . . . .  | 15 |
| 1.2.25 | show rate-counters . . . . .  | 15 |
| 1.2.26 | show stats . . . . .  | 15 |
| 1.2.27 | show stats level (globalpeer subscriber) . . . . .                                    | 16 |
| 1.2.28 | show version . . . . .  | 16 |
| 1.2.29 | terminal length <0-512> . . . . .   | 16 |
| 1.2.30 | terminal no length . . . . .  | 17 |
| 1.2.31 | who . . . . .   | 17 |
| 1.3    | enable . . . . .  | 17 |
| 1.3.1  | configure terminal . . . . .  | 17 |
| 1.3.2  | copy running-config startup-config . . . . .  | 18 |
| 1.3.3  | disable . . . . .   | 18 |
| 1.3.4  | logging color (0 1) . . . . .   | 18 |
| 1.3.5  | logging disable . . . . .   | 19 |
| 1.3.6  | logging enable . . . . .  | 19 |
| 1.3.7  | logging filter all (0 1) . . . . .  | 19 |
| 1.3.8  | logging level (s p mncc appl call global lapd linp mux mim mib sms ctrl gt... . . . . | 20 |
| 1.3.9  | logging level force-all (debug info notice error fatal) . . . . .                     | 21 |
| 1.3.10 | logging level set-all (debug info notice error fatal) . . . . .                       | 22 |
| 1.3.11 | logging print category (0 1) . . . . .  | 23 |
| 1.3.12 | logging print category-hex (0 1) . . . . .  | 23 |
| 1.3.13 | logging print extended-timestamp (0 1) . . . . .                                      | 24 |
| 1.3.14 | logging print file (0 1 basename) [last] . . . . .                                    | 24 |
| 1.3.15 | logging print level (0 1) . . . . .   | 25 |
| 1.3.16 | logging set-log-mask MASK . . . . .   | 25 |
| 1.3.17 | logging timestamp (0 1) . . . . .   | 25 |
| 1.3.18 | no logging level force-all . . . . .  | 26 |
| 1.3.19 | show alarms . . . . .   | 26 |
| 1.3.20 | show asciidoc counters . . . . .  | 27 |
| 1.3.21 | show calls . . . . .  | 27 |
| 1.3.22 | show calls summary . . . . .  | 27 |
| 1.3.23 | show history . . . . .  | 28 |
| 1.3.24 | show logging vty . . . . .  | 28 |
| 1.3.25 | show mncc-connection . . . . .  | 28 |

|        |  |    |
|--------|--|----|
| 1.3.26 | show online-help . . . . .   | 29 |
| 1.3.27 | show rate-counters . . . . .   | 29 |
| 1.3.28 | show startup-config . . . . .  | 29 |
| 1.3.29 | show stats . . . . .   | 29 |
| 1.3.30 | show stats level (global peer subscriber) . . . . .                      | 30 |
| 1.3.31 | show version . . . . .   | 30 |
| 1.3.32 | terminal length <0-512> . . . . .  | 30 |
| 1.3.33 | terminal monitor . . . . .   | 31 |
| 1.3.34 | terminal no length . . . . .   | 31 |
| 1.3.35 | terminal no monitor . . . . .  | 31 |
| 1.3.36 | who . . . . .  | 32 |
| 1.4    | config . . . . .   | 32 |
| 1.4.1  | app . . . . .  | 32 |
| 1.4.2  | banner motd default . . . . .  | 32 |
| 1.4.3  | banner motd file [FILE] . . . . .  | 33 |
| 1.4.4  | enable password (8l) WORD . . . . .                                      | 33 |
| 1.4.5  | enable password LINE . . . . .   | 33 |
| 1.4.6  | hostname WORD . . . . .  | 34 |
| 1.4.7  | line vty . . . . .   | 34 |
| 1.4.8  | log alarms <2-32700> . . . . .   | 34 |
| 1.4.9  | log file .FILENAME . . . . .   | 35 |
| 1.4.10 | log gsmtap [HOSTNAME] . . . . .  | 35 |
| 1.4.11 | log stderr . . . . .   | 35 |
| 1.4.12 | log syslog (auth priv cron daemon ftpl prmail news user luucp) . . . . . | 36 |
| 1.4.13 | log syslog local <0-7> . . . . .   | 36 |
| 1.4.14 | mncc . . . . .   | 37 |
| 1.4.15 | no banner motd . . . . .   | 37 |
| 1.4.16 | no enable password . . . . .   | 37 |
| 1.4.17 | no hostname [HOSTNAME] . . . . .   | 38 |
| 1.4.18 | no log alarms . . . . .  | 38 |
| 1.4.19 | no log file .FILENAME . . . . .  | 38 |
| 1.4.20 | no log stderr . . . . .  | 39 |
| 1.4.21 | no log syslog . . . . .  | 39 |
| 1.4.22 | no service advanced-vty . . . . .  | 39 |
| 1.4.23 | no service terminal-length [<0-512>] . . . . .                           | 40 |
| 1.4.24 | no stats reporter log . . . . .  | 40 |
| 1.4.25 | no stats reporter statsd . . . . .                                       | 40 |
| 1.4.26 | password (8l) WORD . . . . .   | 41 |
| 1.4.27 | password LINE . . . . .  | 41 |

|        |  |    |
|--------|--|----|
| 1.4.28 | service advanced-vty . . . . .   | 41 |
| 1.4.29 | service terminal-length <0-512> . . . . .  | 42 |
| 1.4.30 | show history . . . . .   | 42 |
| 1.4.31 | sip . . . . .  | 42 |
| 1.4.32 | stats interval <1-65535> . . . . .   | 43 |
| 1.4.33 | stats reporter log . . . . .   | 43 |
| 1.4.34 | stats reporter statsd . . . . .  | 43 |
| 1.5    | config-log . . . . .   | 44 |
| 1.5.1  | logging color (01) . . . . .   | 44 |
| 1.5.2  | logging filter all (01) . . . . .  | 44 |
| 1.5.3  | logging level (siplmnccapplcalllgloballlapdllinpllmuxllmillmibllsmsllctrlllgt... . . . . | 45 |
| 1.5.4  | logging level force-all (debuglinfolnoticeerrorlfatal) . . . . .                         | 46 |
| 1.5.5  | logging level set-all (debuglinfolnoticeerrorlfatal) . . . . .                           | 47 |
| 1.5.6  | logging print category (01) . . . . .  | 48 |
| 1.5.7  | logging print category-hex (01) . . . . .  | 48 |
| 1.5.8  | logging print extended-timestamp (01) . . . . .  | 49 |
| 1.5.9  | logging print file (01 basename) [last] . . . . .  | 49 |
| 1.5.10 | logging print level (01) . . . . .   | 50 |
| 1.5.11 | logging timestamp (01) . . . . .   | 50 |
| 1.5.12 | no logging level force-all . . . . .   | 50 |
| 1.6    | config-stats . . . . .   | 51 |
| 1.6.1  | disable . . . . .  | 51 |
| 1.6.2  | enable . . . . .   | 51 |
| 1.6.3  | level (global peer subscriber) . . . . .   | 51 |
| 1.6.4  | local-ip ADDR . . . . .  | 52 |
| 1.6.5  | mtu <100-65535> . . . . .  | 52 |
| 1.6.6  | no local-ip . . . . .  | 52 |
| 1.6.7  | no mtu . . . . .   | 52 |
| 1.6.8  | no prefix . . . . .  | 53 |
| 1.6.9  | prefix PREFIX . . . . .  | 53 |
| 1.6.10 | remote-ip ADDR . . . . .   | 53 |
| 1.6.11 | remote-port <1-65535> . . . . .  | 53 |
| 1.7    | config-line . . . . .  | 54 |
| 1.7.1  | bind A.B.C.D . . . . .   | 54 |
| 1.7.2  | login . . . . .  | 54 |
| 1.7.3  | no login . . . . .   | 54 |
| 1.8    | config-sip . . . . .   | 55 |
| 1.8.1  | local A.B.C.D <1-65534> . . . . .  | 55 |
| 1.8.2  | remote ADDR <1-65534> . . . . .  | 55 |

---

|        |                                     |    |
|--------|-------------------------------------|----|
| 1.8.3  | sofia-sip log-level <0-9> . . . . . | 55 |
| 1.9    | config-mncc . . . . .               | 56 |
| 1.9.1  | socket-path NAME . . . . .          | 56 |
| 1.10   | config-app . . . . .                | 56 |
| 1.10.1 | no use-imsi . . . . .               | 56 |
| 1.10.2 | use-imsi . . . . .                  | 56 |

---

# List of Tables

|     |                                  |   |
|-----|----------------------------------|---|
| 1.1 | VTY Parameter Patterns . . . . . | 1 |
| 1.2 | VTY port numbers . . . . .       | 1 |

## Chapter 1

# VTY reference

The Virtual Tele Type (VTY) has the concept of nodes and commands. This chapter lists all nodes and the commands that are available within the node. Each command can consist out of several words followed by a variable number of parameters. There are common patterns for the parameters, these include IPv4 addresses, number ranges, a word, a line of text and choice. The following will explain the commonly used patterns.

| Pattern                   | Example          | Explanation                                  |
|---------------------------|------------------|--|
| A.B.C.D                   | 127.0.0.1        | A IPv4 address                               |
| TEXT                      | example01        | A single string without any spaces, tabs     |
| .TEXT                     | Some information | A line of text                               |
| (OptionA OptionB OptionC) | OptionA          | A choice between a list of available options |
| <0-10>                    | 5                | A number from a range                        |

Table 1.1: VTY Parameter Patterns

The application is configured through the VTY. For configuring a system one needs to enter the **enable** node and then enter the **configure terminal** command. Then the configuration can be made according to the available commands. After the system has been configured one can use the **write** command to write the new configuration to the configuration file. The new file will be used after the application has been restarted.

The following table lists the TCP port numbers of the VTY for the various Osmocom GSM related programs as used on sysmocom products:

| Port Number | Software            |
|-------------|---------------------|
| 4240        | osmo-pcu            |
| 4241        | osmo-bts            |
| 4242        | osmo-nitb, osmo-bsc |
| 4243        | osmo-bsc_mgcp       |
| 4244        | osmo-bsc_nat        |
| 4245        | osmo-sgsn           |
| 4246        | osmo-gbproxy        |

Table 1.2: VTY port numbers

### 1.1 Common Commands

These commands are available on all VTY nodes. They are listed here only once, to unclutter the VTY reference.

### 1.1.1 end

#### Command

```
end
```

#### Parameters

end

End current mode and change to enable mode.

### 1.1.2 exit

#### Command

```
exit
```

#### Parameters

exit

Exit current mode and down to previous mode

### 1.1.3 help

#### Command

```
help
```

#### Parameters

help

Description of the interactive help system

### 1.1.4 list

#### Command

```
list
```

#### Parameters

list

Print command list

---

### 1.1.5 show running-config

#### Command

```
show running-config
```

#### Parameters

##### show

Show running system information

##### running-config

running configuration

### 1.1.6 write

#### Command

```
write
```

#### Parameters

##### write

Write running configuration to memory, network, or terminal

### 1.1.7 write file

#### Command

```
write file
```

#### Parameters

##### write

Write running configuration to memory, network, or terminal

##### file

Write to configuration file

### 1.1.8 write memory

#### Command

```
write memory
```

#### Parameters

##### write

Write running configuration to memory, network, or terminal

##### memory

Write configuration to the file (same as write file)

---

### 1.1.9 write terminal

#### Command

```
write terminal
```

#### Parameters

##### write

Write running configuration to memory, network, or terminal

##### terminal

Write to terminal

## 1.2 view

The view node is the default node when connecting to the VTY interface. This node does not require any additional permission and allows to introspect the application.

### 1.2.1 enable

#### Command

```
enable
```

#### Parameters

##### enable

Turn on privileged mode command

### 1.2.2 logging color (0|1)

#### Command

```
logging color (0|1)
```

#### Parameters

##### logging

Configure logging

##### color

Configure color-printing for log messages

##### 0

Don't use color for printing messages

##### 1

Use color for printing messages

---

### 1.2.3 logging disable

#### Command

```
logging disable
```

#### Parameters

##### logging

Configure logging

##### disable

Disables logging to this vty

### 1.2.4 logging enable

This command is required to make logging commands available on the telnet VTY.

#### Command

```
logging enable
```

#### Parameters

##### logging

Configure logging

##### enable

Enables logging to this vty

### 1.2.5 logging filter all (0|1)

Disable/enable general log output on a given target. Typically, 'logging filter all 1' allows to see the usual log output on a given target. Setting to '0' can be useful when logging to the telnet VTY console: mute all log output to allow typing VTY commands on the telnet prompt without interference from log output; 'logging filter all 1' then re-enables logging in the same log output configuration as before. Some applications provide more specific filters, e.g. to log a given IMSI only. To employ such filters, set 'logging filter all 0' to disable general logging, and then enable a more specific filter instead.

#### Command

```
logging filter all (0|1)
```

#### Parameters

##### logging

Configure logging

##### filter

Filter log messages

##### all

Do you want to log all messages?

##### 0

Only print messages matched by other filters

##### 1

Bypass filter and print all messages

---

## 1.2.6 logging level (sip|mncc|app|call|lglobal|llapd|linp|lmux|lmi|lmib|lsms|lctrl|lgt...

### Command

```
logging level (sip|mncc|app|call|lglobal|llapd|linp|lmux|lmi|lmib|lsms|lctrl|lgtp| ↵  
lstats|lgsup|loap|lss7|lsccp|lsua|lm3ua|lmgcp|ljibuf) (debug|info|notice|error| ↵  
fatal)
```

### Parameters

#### logging

Configure logging

#### level

Set the log level for a specified category

#### sip

SIP interface

#### mncc

MNCC interface

#### app

Application interface

#### call

Call management

#### lglobal

Library-internal global log family

#### llapd

LAPD in libosmogsm

#### linp

A-bis Input Subsystem

#### lmux

A-bis B-Subchannel TRAU Frame Multiplex

#### lmi

A-bis Input Driver for Signalling

#### lmib

A-bis Input Driver for B-Channels (voice)

#### lsms

Layer3 Short Message Service (SMS)

#### lctrl

Control Interface

#### lgtp

GPRS GTP library

---

lstats

Statistics messages and logging

lgsup

Generic Subscriber Update Protocol

loap

Osmocom Authentication Protocol

lss7

libosmo-sigtran Signalling System 7

lsccp

libosmo-sigtran SCCP Implementation

lsua

libosmo-sigtran SCCP User Adaptation

lm3ua

libosmo-sigtran MTP3 User Adaptation

lmgcp

libosmo-mgcp Media Gateway Control Protocol

ljibuf

libosmo-netif Jitter Buffer

debug

Log debug messages and higher levels

info

Log informational messages and higher levels

notice

Log noticeable messages and higher levels

error

Log error messages and higher levels

fatal

Log only fatal messages

### 1.2.7 logging level force-all (debug|info|notice|error|fatal)

Command

```
logging level force-all (debug|info|notice|error|fatal)
```

Parameters

logging

Configure logging

level

Set the log level for a specified category

---

**force-all**

Globally force all logging categories to a specific level. This is released by the 'no logging level force-all' command. Note: any 'logging level <category> <level>' commands will have no visible effect after this, until the forced level is released.

**debug**

Log debug messages and higher levels

**info**

Log informational messages and higher levels

**notice**

Log noticeable messages and higher levels

**error**

Log error messages and higher levels

**fatal**

Log only fatal messages

## 1.2.8 logging level set-all (debug|info|notice|error|fatal)

**Command**

```
logging level set-all (debug|info|notice|error|fatal)
```

**Parameters****logging**

Configure logging

**level**

Set the log level for a specified category

**set-all**

Once-off set all categories to the given log level. There is no single command to take back these changes -- each category is set to the given level, period.

**debug**

Log debug messages and higher levels

**info**

Log informational messages and higher levels

**notice**

Log noticeable messages and higher levels

**error**

Log error messages and higher levels

**fatal**

Log only fatal messages

---

### 1.2.9 logging print category (0|1)

#### Command

```
logging print category (0|1)
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### category

Configure log message

0

Don't prefix each log message

1

Prefix each log message with category/subsystem name

### 1.2.10 logging print category-hex (0|1)

#### Command

```
logging print category-hex (0|1)
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### category-hex

Configure log message

0

Don't prefix each log message

1

Prefix each log message with category/subsystem nr in hex ('<000b>')

### 1.2.11 logging print extended-timestamp (0|1)

#### Command

```
logging print extended-timestamp (0|1)
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### extended-timestamp

Configure log message timestamping

0

Don't prefix each log message

1

Prefix each log message with current timestamp with YYYYMMDDhhmmssnnn

### 1.2.12 logging print file (0|1|basename) [last]

#### Command

```
logging print file (0|1|basename) [last]
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### file

Configure log message

0

Don't prefix each log message

1

Prefix each log message with the source file and line

##### basename

Prefix each log message with the source file's basename (strip leading paths) and line

##### [last]

Log source file info at the end of a log line. If omitted, log source file info just before the log text.

### 1.2.13 logging print level (0|1)

#### Command

```
logging print level (0|1)
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### level

Configure log message

##### 0

Don't prefix each log message

##### 1

Prefix each log message with the log level name

### 1.2.14 logging set-log-mask MASK

#### Command

```
logging set-log-mask MASK
```

#### Parameters

##### logging

Configure logging

##### set-log-mask

Set the logmask of this logging target

##### MASK

List of logging categories to log, e.g. 'abc:mno:xyz'. Available log categories depend on the specific application, refer to the 'logging level' command. Optionally add individual log levels like 'abc,1:mno,3:xyz,5', where the level numbers are LOGL\_DEBUG=1 LOGL\_INFO=3 LOGL\_NOTICE=5 LOGL\_ERROR=7 LOGL\_FATAL=8

### 1.2.15 logging timestamp (0|1)

#### Command

```
logging timestamp (0|1)
```

#### Parameters

---

logging

Configure logging

timestamp

Configure log message timestamping

0

Don't prefix each log message

1

Prefix each log message with current timestamp

### 1.2.16 no logging level force-all

Command

```
no logging level force-all
```

Parameters

no

Negate a command or set its defaults

logging

Configure logging

level

Set the log level for a specified category

force-all

Release any globally forced log level set with 'logging level force-all <level>'

### 1.2.17 show alarms

Command

```
show alarms
```

Parameters

show

Show running system information

alarms

Show current logging configuration

### 1.2.18 show asciidoc counters

#### Command

```
show asciidoc counters
```

#### Parameters

show

Show running system information

asciidoc

Asciidoc generation

counters

Generate table of all registered counters

### 1.2.19 show calls

#### Command

```
show calls
```

#### Parameters

show

Show running system information

calls

Current calls

### 1.2.20 show calls summary

#### Command

```
show calls summary
```

#### Parameters

show

Show running system information

calls

Current calls

summary

Brief overview

### 1.2.21 show history

#### Command

```
show history
```

#### Parameters

##### show

Show running system information

##### history

Display the session command history

### 1.2.22 show logging vty

#### Command

```
show logging vty
```

#### Parameters

##### show

Show running system information

##### logging

Show current logging configuration

##### vty

Show current logging configuration for this vty

### 1.2.23 show mncc-connection

#### Command

```
show mncc-connection
```

#### Parameters

##### show

Show running system information

##### mncc-connection

MNCC Connection state

---

### 1.2.24 show online-help

#### Command

```
show online-help
```

#### Parameters

##### show

Show running system information

##### online-help

Online help

### 1.2.25 show rate-counters

#### Command

```
show rate-counters
```

#### Parameters

##### show

Show running system information

##### rate-counters

Show all rate counters

### 1.2.26 show stats

#### Command

```
show stats
```

#### Parameters

##### show

Show running system information

##### stats

Show statistical values

### 1.2.27 show stats level (global|peer|subscriber)

#### Command

```
show stats level (global|peer|subscriber)
```

#### Parameters

show

Show running system information

stats

Show statistical values

level

Set the maximum group level

global

Show global groups only

peer

Show global and network peer related groups

subscriber

Show global, peer, and subscriber groups

### 1.2.28 show version

#### Command

```
show version
```

#### Parameters

show

Show running system information

version

Displays program version

### 1.2.29 terminal length <0-512>

#### Command

```
terminal length <0-512>
```

#### Parameters

terminal

Set terminal line parameters

length

Set number of lines on a screen

<0-512>

Number of lines on screen (0 for no pausing)

---

### 1.2.30 terminal no length

#### Command

```
terminal no length
```

#### Parameters

##### terminal

Set terminal line parameters

##### no

Negate a command or set its defaults

##### length

Set number of lines on a screen

### 1.2.31 who

#### Command

```
who
```

#### Parameters

##### who

Display who is on vty

## 1.3 enable

The enable node is a privileged node, allowing to make changes to the configuration and to access further commands like 'configure'. All commands seen on the view node are also available here.

### 1.3.1 configure terminal

#### Command

```
configure terminal
```

#### Parameters

##### configure

Configuration from vty interface

##### terminal

Configuration terminal

### 1.3.2 copy running-config startup-config

#### Command

```
copy running-config startup-config
```

#### Parameters

##### copy

Copy configuration

##### running-config

Copy running config to...

##### startup-config

Copy running config to startup config (same as write file)

### 1.3.3 disable

#### Command

```
disable
```

#### Parameters

##### disable

Turn off privileged mode command

### 1.3.4 logging color (0|1)

#### Command

```
logging color (0|1)
```

#### Parameters

##### logging

Configure logging

##### color

Configure color-printing for log messages

##### 0

Don't use color for printing messages

##### 1

Use color for printing messages

---

### 1.3.5 logging disable

#### Command

```
logging disable
```

#### Parameters

##### logging

Configure logging

##### disable

Disables logging to this vty

### 1.3.6 logging enable

This command is required to make logging commands available on the telnet VTY.

#### Command

```
logging enable
```

#### Parameters

##### logging

Configure logging

##### enable

Enables logging to this vty

### 1.3.7 logging filter all (0|1)

Disable/enable general log output on a given target. Typically, 'logging filter all 1' allows to see the usual log output on a given target. Setting to '0' can be useful when logging to the telnet VTY console: mute all log output to allow typing VTY commands on the telnet prompt without interference from log output; 'logging filter all 1' then re-enables logging in the same log output configuration as before. Some applications provide more specific filters, e.g. to log a given IMSI only. To employ such filters, set 'logging filter all 0' to disable general logging, and then enable a more specific filter instead.

#### Command

```
logging filter all (0|1)
```

#### Parameters

##### logging

Configure logging

##### filter

Filter log messages

##### all

Do you want to log all messages?

##### 0

Only print messages matched by other filters

##### 1

Bypass filter and print all messages

---

### 1.3.8 logging level (sip|mncc|app|call|lglobal|llapd|linp|lmux|lmi|lmib|lsms|lctrl|lgt...

#### Command

```
logging level (sip|mncc|app|call|lglobal|llapd|linp|lmux|lmi|lmib|lsms|lctrl|lgt| ↵  
lstats|lgsup|loap|lss7|lscpp|lsua|lm3ua|lmgcp|ljibuf) (debug|info|notice|error| ↵  
fatal)
```

#### Parameters

##### logging

Configure logging

##### level

Set the log level for a specified category

##### sip

SIP interface

##### mncc

MNCC interface

##### app

Application interface

##### call

Call management

##### lglobal

Library-internal global log family

##### llapd

LAPD in libosmogsm

##### linp

A-bis Input Subsystem

##### lmux

A-bis B-Subchannel TRAU Frame Multiplex

##### lmi

A-bis Input Driver for Signalling

##### lmib

A-bis Input Driver for B-Channels (voice)

##### lsms

Layer3 Short Message Service (SMS)

##### lctrl

Control Interface

##### lgtp

GPRS GTP library

---

lstats

Statistics messages and logging

lgsup

Generic Subscriber Update Protocol

loap

Osmocom Authentication Protocol

lss7

libosmo-sigtran Signalling System 7

lsccp

libosmo-sigtran SCCP Implementation

lsua

libosmo-sigtran SCCP User Adaptation

lm3ua

libosmo-sigtran MTP3 User Adaptation

lmgcp

libosmo-mgcp Media Gateway Control Protocol

ljibuf

libosmo-netif Jitter Buffer

debug

Log debug messages and higher levels

info

Log informational messages and higher levels

notice

Log noticeable messages and higher levels

error

Log error messages and higher levels

fatal

Log only fatal messages

### 1.3.9 logging level force-all (debug|info|notice|error|fatal)

Command

```
logging level force-all (debug|info|notice|error|fatal)
```

Parameters

logging

Configure logging

level

Set the log level for a specified category

**force-all**

Globally force all logging categories to a specific level. This is released by the 'no logging level force-all' command. Note: any 'logging level <category> <level>' commands will have no visible effect after this, until the forced level is released.

**debug**

Log debug messages and higher levels

**info**

Log informational messages and higher levels

**notice**

Log noticeable messages and higher levels

**error**

Log error messages and higher levels

**fatal**

Log only fatal messages

### 1.3.10 logging level set-all (debug|info|notice|error|fatal)

**Command**

```
logging level set-all (debug|info|notice|error|fatal)
```

**Parameters****logging**

Configure logging

**level**

Set the log level for a specified category

**set-all**

Once-off set all categories to the given log level. There is no single command to take back these changes -- each category is set to the given level, period.

**debug**

Log debug messages and higher levels

**info**

Log informational messages and higher levels

**notice**

Log noticeable messages and higher levels

**error**

Log error messages and higher levels

**fatal**

Log only fatal messages

---

### 1.3.11 logging print category (0|1)

#### Command

```
logging print category (0|1)
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### category

Configure log message

0

Don't prefix each log message

1

Prefix each log message with category/subsystem name

### 1.3.12 logging print category-hex (0|1)

#### Command

```
logging print category-hex (0|1)
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### category-hex

Configure log message

0

Don't prefix each log message

1

Prefix each log message with category/subsystem nr in hex ('<000b>')

### 1.3.13 logging print extended-timestamp (0|1)

#### Command

```
logging print extended-timestamp (0|1)
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### extended-timestamp

Configure log message timestamping

0

Don't prefix each log message

1

Prefix each log message with current timestamp with YYYYMMDDhhmmssnnn

### 1.3.14 logging print file (0|1|basename) [last]

#### Command

```
logging print file (0|1|basename) [last]
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### file

Configure log message

0

Don't prefix each log message

1

Prefix each log message with the source file and line

##### basename

Prefix each log message with the source file's basename (strip leading paths) and line

##### [last]

Log source file info at the end of a log line. If omitted, log source file info just before the log text.

### 1.3.15 logging print level (0|1)

#### Command

```
logging print level (0|1)
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### level

Configure log message

##### 0

Don't prefix each log message

##### 1

Prefix each log message with the log level name

### 1.3.16 logging set-log-mask MASK

#### Command

```
logging set-log-mask MASK
```

#### Parameters

##### logging

Configure logging

##### set-log-mask

Set the logmask of this logging target

##### MASK

List of logging categories to log, e.g. 'abc:mno:xyz'. Available log categories depend on the specific application, refer to the 'logging level' command. Optionally add individual log levels like 'abc,1:mno,3:xyz,5', where the level numbers are LOGL\_DEBUG=1 LOGL\_INFO=3 LOGL\_NOTICE=5 LOGL\_ERROR=7 LOGL\_FATAL=8

### 1.3.17 logging timestamp (0|1)

#### Command

```
logging timestamp (0|1)
```

#### Parameters

---

logging

Configure logging

timestamp

Configure log message timestamping

0

Don't prefix each log message

1

Prefix each log message with current timestamp

### 1.3.18 no logging level force-all

Command

```
no logging level force-all
```

Parameters

no

Negate a command or set its defaults

logging

Configure logging

level

Set the log level for a specified category

force-all

Release any globally forced log level set with 'logging level force-all <level>'

### 1.3.19 show alarms

Command

```
show alarms
```

Parameters

show

Show running system information

alarms

Show current logging configuration

### 1.3.20 show asciidoc counters

#### Command

```
show asciidoc counters
```

#### Parameters

show

Show running system information

asciidoc

Asciidoc generation

counters

Generate table of all registered counters

### 1.3.21 show calls

#### Command

```
show calls
```

#### Parameters

show

Show running system information

calls

Current calls

### 1.3.22 show calls summary

#### Command

```
show calls summary
```

#### Parameters

show

Show running system information

calls

Current calls

summary

Brief overview

### 1.3.23 show history

#### Command

```
show history
```

#### Parameters

##### show

Show running system information

##### history

Display the session command history

### 1.3.24 show logging vty

#### Command

```
show logging vty
```

#### Parameters

##### show

Show running system information

##### logging

Show current logging configuration

##### vty

Show current logging configuration for this vty

### 1.3.25 show mncc-connection

#### Command

```
show mncc-connection
```

#### Parameters

##### show

Show running system information

##### mncc-connection

MNCC Connection state

---

### 1.3.26 show online-help

#### Command

```
show online-help
```

#### Parameters

show

Show running system information

online-help

Online help

### 1.3.27 show rate-counters

#### Command

```
show rate-counters
```

#### Parameters

show

Show running system information

rate-counters

Show all rate counters

### 1.3.28 show startup-config

#### Command

```
show startup-config
```

#### Parameters

show

Show running system information

startup-config

Contentes of startup configuration

### 1.3.29 show stats

#### Command

```
show stats
```

#### Parameters

show

Show running system information

stats

Show statistical values

### 1.3.30 show stats level (global|peer|subscriber)

#### Command

```
show stats level (global|peer|subscriber)
```

#### Parameters

##### show

Show running system information

##### stats

Show statistical values

##### level

Set the maximum group level

##### global

Show global groups only

##### peer

Show global and network peer related groups

##### subscriber

Show global, peer, and subscriber groups

### 1.3.31 show version

#### Command

```
show version
```

#### Parameters

##### show

Show running system information

##### version

Displays program version

### 1.3.32 terminal length <0-512>

#### Command

```
terminal length <0-512>
```

#### Parameters

##### terminal

Set terminal line parameters

##### length

Set number of lines on a screen

##### <0-512>

Number of lines on screen (0 for no pausing)

---

### 1.3.33 terminal monitor

#### Command

```
terminal monitor
```

#### Parameters

##### terminal

Set terminal line parameters

##### monitor

Copy debug output to the current terminal line

### 1.3.34 terminal no length

#### Command

```
terminal no length
```

#### Parameters

##### terminal

Set terminal line parameters

##### no

Negate a command or set its defaults

##### length

Set number of lines on a screen

### 1.3.35 terminal no monitor

#### Command

```
terminal no monitor
```

#### Parameters

##### terminal

Set terminal line parameters

##### no

Negate a command or set its defaults

##### monitor

Copy debug output to the current terminal line

---

### 1.3.36 who

#### Command

```
who
```

#### Parameters

who

Display who is on vty

## 1.4 config

The config node is the root for all configuration commands, which are identical to the config file format. Changes made on the telnet VTY can be made persistent with the 'write file' command.

### 1.4.1 app

#### Command

```
app
```

#### Parameters

app

Application Handling

### 1.4.2 banner motd default

#### Command

```
banner motd default
```

#### Parameters

banner

Set banner string

motd

Strings for motd

default

Default string

### 1.4.3 banner motd file [FILE]

#### Command

```
banner motd file [FILE]
```

#### Parameters

##### banner

Set banner

##### motd

Banner for motd

##### file

Banner from a file

##### [FILE]

Filename

### 1.4.4 enable password (8|) WORD

#### Command

```
enable password (8|) WORD
```

#### Parameters

##### enable

Modify enable password parameters

##### password

Assign the privileged level password

##### 8

Specifies a HIDDEN password will follow

##### dummy string

##### WORD

The HIDDEN 'enable' password string

### 1.4.5 enable password LINE

#### Command

```
enable password LINE
```

#### Parameters

##### enable

Modify enable password parameters

##### password

Assign the privileged level password

##### LINE

The UNENCRYPTED (cleartext) 'enable' password

---

### 1.4.6 hostname WORD

#### Command

```
hostname WORD
```

#### Parameters

##### hostname

Set system's network name

##### WORD

This system's network name

### 1.4.7 line vty

#### Command

```
line vty
```

#### Parameters

##### line

Configure a terminal line

##### vty

Virtual terminal

### 1.4.8 log alarms <2-32700>

#### Command

```
log alarms <2-32700>
```

#### Parameters

##### log

Configure logging sub-system

##### alarms

Logging alarms to osmo\_strrb

##### <2-32700>

Maximum number of messages to log

---

### 1.4.9 log file .FILENAME

#### Command

```
log file .FILENAME
```

#### Parameters

log

Configure logging sub-system

file

Logging to text file

.FILENAME

Filename

### 1.4.10 log gsmtap [HOSTNAME]

#### Command

```
log gsmtap [HOSTNAME]
```

#### Parameters

log

Configure logging sub-system

gsmtap

Logging via GSMTAP

[HOSTNAME]

Host name to send the GSMTAP logging to (UDP port 4729)

### 1.4.11 log stderr

#### Command

```
log stderr
```

#### Parameters

log

Configure logging sub-system

stderr

Logging via STDERR of the process

### 1.4.12 log syslog (authpriv|cron|daemon|ftp|lpr|mail|news|user|uucp)

#### Command

```
log syslog (authpriv|cron|daemon|ftp|lpr|mail|news|user|uucp)
```

#### Parameters

log

Configure logging sub-system

syslog

Logging via syslog

authpriv

Security/authorization messages facility

cron

Clock daemon (cron/at) facility

daemon

General system daemon facility

ftp

Ftp daemon facility

lpr

Line printer facility

mail

Mail facility

news

News facility

user

Generic facility

uucp

UUCP facility

### 1.4.13 log syslog local <0-7>

#### Command

```
log syslog local <0-7>
```

#### Parameters

log

Configure logging sub-system

syslog

Logging via syslog

local

Syslog LOCAL facility

<0-7>

Local facility number

#### 1.4.14 mncc

Command

```
mncc
```

Parameters

mncc

MNCC

#### 1.4.15 no banner motd

Command

```
no banner motd
```

Parameters

no

Negate a command or set its defaults

banner

Set banner string

motd

Strings for motd

#### 1.4.16 no enable password

Command

```
no enable password
```

Parameters

no

Negate a command or set its defaults

enable

Modify enable password parameters

password

Assign the privileged level password

---

### 1.4.17 no hostname [HOSTNAME]

#### Command

```
no hostname [HOSTNAME]
```

#### Parameters

no

Negate a command or set its defaults

hostname

Reset system's network name

[HOSTNAME]

Host name of this router

### 1.4.18 no log alarms

#### Command

```
no log alarms
```

#### Parameters

no

Negate a command or set its defaults

log

Configure logging sub-system

alarms

Logging alarms to osmo\_strrb

### 1.4.19 no log file .FILENAME

#### Command

```
no log file .FILENAME
```

#### Parameters

no

Negate a command or set its defaults

log

Configure logging sub-system

file

Logging to text file

.FILENAME

Filename

### 1.4.20 no log stderr

#### Command

```
no log stderr
```

#### Parameters

no

Negate a command or set its defaults

log

Configure logging sub-system

stderr

Logging via STDERR of the process

### 1.4.21 no log syslog

#### Command

```
no log syslog
```

#### Parameters

no

Negate a command or set its defaults

log

Configure logging sub-system

syslog

Logging via syslog

### 1.4.22 no service advanced-vty

#### Command

```
no service advanced-vty
```

#### Parameters

no

Negate a command or set its defaults

service

Set up miscellaneous service

advanced-vty

Enable advanced mode vty interface

---

### 1.4.23 no service terminal-length [<0-512>]

#### Command

```
no service terminal-length [<0-512>]
```

#### Parameters

no

Negate a command or set its defaults

service

Set up miscellaneous service

terminal-length

System wide terminal length configuration

[<0-512>]

Number of lines of VTY (0 means no line control)

### 1.4.24 no stats reporter log

#### Command

```
no stats reporter log
```

#### Parameters

no

Negate a command or set its defaults

stats

Configure stats sub-system

reporter

Configure a stats reporter

log

Report to the logger

### 1.4.25 no stats reporter statsd

#### Command

```
no stats reporter statsd
```

#### Parameters

no

Negate a command or set its defaults

---

stats

Configure stats sub-system

reporter

Configure a stats reporter

statsd

Report to a STATSD server

### 1.4.26 password (8|) WORD

Command

```
password (8|) WORD
```

Parameters

password

Assign the terminal connection password

8

Specifies a HIDDEN password will follow

dummy string

WORD

The HIDDEN line password string

### 1.4.27 password LINE

Command

```
password LINE
```

Parameters

password

Assign the terminal connection password

LINE

The UNENCRYPTED (cleartext) line password

### 1.4.28 service advanced-vty

Command

```
service advanced-vty
```

Parameters

service

Set up miscellaneous service

advanced-vty

Enable advanced mode vty interface

### 1.4.29 service terminal-length <0-512>

#### Command

```
service terminal-length <0-512>
```

#### Parameters

##### service

Set up miscellaneous service

##### terminal-length

System wide terminal length configuration

##### <0-512>

Number of lines of VTY (0 means no line control)

### 1.4.30 show history

#### Command

```
show history
```

#### Parameters

##### show

Show running system information

##### history

Display the session command history

### 1.4.31 sip

#### Command

```
sip
```

#### Parameters

##### sip

SIP related commands

### 1.4.32 stats interval <1-65535>

#### Command

```
stats interval <1-65535>
```

#### Parameters

stats

Configure stats sub-system

interval

Set the reporting interval

<1-65535>

Interval in seconds

### 1.4.33 stats reporter log

#### Command

```
stats reporter log
```

#### Parameters

stats

Configure stats sub-system

reporter

Configure a stats reporter

log

Report to the logger

### 1.4.34 stats reporter statsd

#### Command

```
stats reporter statsd
```

#### Parameters

stats

Configure stats sub-system

reporter

Configure a stats reporter

statsd

Report to a STATSD server

---

## 1.5 config-log

The log node is commonly available in all Osmocom programs and allows configuring logging to stderr and/or log files, including logging category and level filtering as well as output formatting options. Note that the 'logging enable' command is required to make logging commands available on the telnet VTY.

### 1.5.1 logging color (0|1)

Command

```
logging color (0|1)
```

Parameters

logging

Configure logging

color

Configure color-printing for log messages

0

Don't use color for printing messages

1

Use color for printing messages

### 1.5.2 logging filter all (0|1)

Disable/enable general log output on a given target. Typically, 'logging filter all 1' allows to see the usual log output on a given target. Setting to '0' can be useful when logging to the telnet VTY console: mute all log output to allow typing VTY commands on the telnet prompt without interference from log output; 'logging filter all 1' then re-enables logging in the same log output configuration as before. Some applications provide more specific filters, e.g. to log a given IMSI only. To employ such filters, set 'logging filter all 0' to disable general logging, and then enable a more specific filter instead.

Command

```
logging filter all (0|1)
```

Parameters

logging

Configure logging

filter

Filter log messages

all

Do you want to log all messages?

0

Only print messages matched by other filters

1

Bypass filter and print all messages

---

### 1.5.3 logging level (sip|mncc|app|call|lglobal|llapd|linp|lmux|lmi|lmib|lsms|lctrl|lgt...

#### Command

```
logging level (sip|mncc|app|call|lglobal|llapd|linp|lmux|lmi|lmib|lsms|lctrl|lgt| ↔  
lstats|lgsup|loap|lss7|lsccp|lsua|lm3ua|lmgcp|ljibuf) (debug|info|notice|error| ↔  
fatal)
```

#### Parameters

##### logging

Configure logging

##### level

Set the log level for a specified category

##### sip

SIP interface

##### mncc

MNCC interface

##### app

Application interface

##### call

Call management

##### lglobal

Library-internal global log family

##### llapd

LAPD in libosmogsm

##### linp

A-bis Input Subsystem

##### lmux

A-bis B-Subchannel TRAU Frame Multiplex

##### lmi

A-bis Input Driver for Signalling

##### lmib

A-bis Input Driver for B-Channels (voice)

##### lsms

Layer3 Short Message Service (SMS)

##### lctrl

Control Interface

##### lgtp

GPRS GTP library

---

lstats

Statistics messages and logging

lgsup

Generic Subscriber Update Protocol

loap

Osmocom Authentication Protocol

lss7

libosmo-sigtran Signalling System 7

lsccp

libosmo-sigtran SCCP Implementation

lsua

libosmo-sigtran SCCP User Adaptation

lm3ua

libosmo-sigtran MTP3 User Adaptation

lmgcp

libosmo-mgcp Media Gateway Control Protocol

ljibuf

libosmo-netif Jitter Buffer

debug

Log debug messages and higher levels

info

Log informational messages and higher levels

notice

Log noticeable messages and higher levels

error

Log error messages and higher levels

fatal

Log only fatal messages

### 1.5.4 logging level force-all (debug|info|notice|error|fatal)

Command

```
logging level force-all (debug|info|notice|error|fatal)
```

Parameters

logging

Configure logging

level

Set the log level for a specified category

**force-all**

Globally force all logging categories to a specific level. This is released by the 'no logging level force-all' command. Note: any 'logging level <category> <level>' commands will have no visible effect after this, until the forced level is released.

**debug**

Log debug messages and higher levels

**info**

Log informational messages and higher levels

**notice**

Log noticeable messages and higher levels

**error**

Log error messages and higher levels

**fatal**

Log only fatal messages

### 1.5.5 logging level set-all (debug|info|notice|error|fatal)

**Command**

```
logging level set-all (debug|info|notice|error|fatal)
```

**Parameters****logging**

Configure logging

**level**

Set the log level for a specified category

**set-all**

Once-off set all categories to the given log level. There is no single command to take back these changes -- each category is set to the given level, period.

**debug**

Log debug messages and higher levels

**info**

Log informational messages and higher levels

**notice**

Log noticeable messages and higher levels

**error**

Log error messages and higher levels

**fatal**

Log only fatal messages

---

### 1.5.6 logging print category (0|1)

#### Command

```
logging print category (0|1)
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### category

Configure log message

0

Don't prefix each log message

1

Prefix each log message with category/subsystem name

### 1.5.7 logging print category-hex (0|1)

#### Command

```
logging print category-hex (0|1)
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### category-hex

Configure log message

0

Don't prefix each log message

1

Prefix each log message with category/subsystem nr in hex ('<000b>')

### 1.5.8 logging print extended-timestamp (0|1)

#### Command

```
logging print extended-timestamp (0|1)
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### extended-timestamp

Configure log message timestamping

0

Don't prefix each log message

1

Prefix each log message with current timestamp with YYYYMMDDhhmmssnnn

### 1.5.9 logging print file (0|1|basename) [last]

#### Command

```
logging print file (0|1|basename) [last]
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### file

Configure log message

0

Don't prefix each log message

1

Prefix each log message with the source file and line

##### basename

Prefix each log message with the source file's basename (strip leading paths) and line

##### [last]

Log source file info at the end of a log line. If omitted, log source file info just before the log text.

### 1.5.10 logging print level (0|1)

#### Command

```
logging print level (0|1)
```

#### Parameters

##### logging

Configure logging

##### print

Log output settings

##### level

Configure log message

0

Don't prefix each log message

1

Prefix each log message with the log level name

### 1.5.11 logging timestamp (0|1)

#### Command

```
logging timestamp (0|1)
```

#### Parameters

##### logging

Configure logging

##### timestamp

Configure log message timestamping

0

Don't prefix each log message

1

Prefix each log message with current timestamp

### 1.5.12 no logging level force-all

#### Command

```
no logging level force-all
```

#### Parameters

---

no

Negate a command or set its defaults

logging

Configure logging

level

Set the log level for a specified category

force-all

Release any globally forced log level set with 'logging level force-all <level>'

## 1.6 config-stats

### 1.6.1 disable

Command

```
disable
```

Parameters

disable

Disable the reporter

### 1.6.2 enable

Command

```
enable
```

Parameters

enable

Enable the reporter

### 1.6.3 level (global|peer|subscriber)

Command

```
level (global|peer|subscriber)
```

Parameters

level

Set the maximum group level

global

Report global groups only

peer

Report global and network peer related groups

subscriber

Report global, peer, and subscriber groups

---

### 1.6.4 local-ip ADDR

#### Command

```
local-ip ADDR
```

#### Parameters

##### local-ip

Set the IP address to which we bind locally

##### ADDR

IP Address

### 1.6.5 mtu <100-65535>

#### Command

```
mtu <100-65535>
```

#### Parameters

##### mtu

Set the maximum packet size

##### <100-65535>

Size in byte

### 1.6.6 no local-ip

#### Command

```
no local-ip
```

#### Parameters

##### no

Negate a command or set its defaults

##### local-ip

Set the IP address to which we bind locally

### 1.6.7 no mtu

#### Command

```
no mtu
```

#### Parameters

##### no

Negate a command or set its defaults

##### mtu

Set the maximum packet size

---

### 1.6.8 no prefix

#### Command

```
no prefix
```

#### Parameters

no

Negate a command or set its defaults

prefix

Set the item name prefix

### 1.6.9 prefix PREFIX

#### Command

```
prefix PREFIX
```

#### Parameters

prefix

Set the item name prefix

PREFIX

The prefix string

### 1.6.10 remote-ip ADDR

#### Command

```
remote-ip ADDR
```

#### Parameters

remote-ip

Set the remote IP address to which we connect

ADDR

IP Address

### 1.6.11 remote-port <1-65535>

#### Command

```
remote-port <1-65535>
```

#### Parameters

remote-port

Set the remote port to which we connect

<1-65535>

Remote port number

---

## 1.7 config-line

### 1.7.1 bind A.B.C.D

#### Command

```
bind A.B.C.D
```

#### Parameters

bind

Accept VTY telnet connections on local interface

A.B.C.D

Local interface IP address (default: 127.0.0.1)

### 1.7.2 login

#### Command

```
login
```

#### Parameters

login

Enable password checking

### 1.7.3 no login

#### Command

```
no login
```

#### Parameters

no

Negate a command or set its defaults

login

Enable password checking

---

## 1.8 config-sip

### 1.8.1 local A.B.C.D <1-65534>

#### Command

```
local A.B.C.D <1-65534>
```

#### Parameters

local

Local information

A.B.C.D

IPv4 bind address

<1-65534>

port

### 1.8.2 remote ADDR <1-65534>

#### Command

```
remote ADDR <1-65534>
```

#### Parameters

remote

Remote information

ADDR

SIP hostname

<1-65534>

port

### 1.8.3 sofia-sip log-level <0-9>

#### Command

```
sofia-sip log-level <0-9>
```

#### Parameters

sofia-sip

sofia-sip library configuration

log-level

global log-level for sofia-sip

<0-9>

(0 = nothing, 9 = super-verbose)

## 1.9 config-mncc

### 1.9.1 socket-path NAME

Command

```
socket-path NAME
```

Parameters

socket-path

MNCC filepath

NAME

Filename

## 1.10 config-app

### 1.10.1 no use-imsi

Command

```
no use-imsi
```

Parameters

no

Negate a command or set its defaults

use-imsi

Use the IMSI for MO calling and MT called address

### 1.10.2 use-imsi

Command

```
use-imsi
```

Parameters

use-imsi

Use the IMSI for MO calling and MT called address

---