OsmoMGW VTY Reference

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COLLABORATORS

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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 (rtp|iuup|lglobal|llapd|linp|lmux|lmi|lmib|lsms|lctrl|lgtp|lstats|...

Command

```
logging level (rtp|iuup|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

rtp

RTP stream handling

iuup

IuUP within RTP stream handling

lglobal

Library-internal global log family

llapd

LAPD in libosmogsm

linp

A-bis Intput 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 history**

Command

```
show history
```

Parameters

show

> Show running system information

history

> Display the session command history

1.2.20 **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

1.2.21 **show mgcp [stats]**

Command

```
show mgcp [stats]
```

Parameters

show

> Show running system information

mgcp

> Display information about the MGCP Media Gateway

[stats]

> Include Statistics

1.2.22 show mgcp endpoint NAME

Command

```
show mgcp endpoint NAME
```

Parameters

show

Show running system information

mgcp

Display information about the MGCP Media Gateway

endpoint

Display information about an endpoint

NAME

The name of the endpoint

1.2.23 show mgcp trunk <0-64> endpoint NAME

Command

```
show mgcp trunk <0-64> endpoint NAME
```

Parameters

show

Show running system information

mgcp

Display information about the MGCP Media Gateway

trunk

Display information about a trunk

<0-64>

Trunk number

endpoint

Display information about an endpoint

NAME

The name of the endpoint

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 talloc-context (application|all) (full|brief|DEPTH)

Command

```
show talloc-context (application|all) (full|brief|DEPTH)
```

Parameters

show

Show running system information

talloc-context

Show talloc memory hierarchy

application

Application's context

all

All contexts, if NULL-context tracking is enabled

full

Display a full talloc memory hierarchy

brief

Display a brief talloc memory hierarchy

DEPTH

Specify required maximal depth value

1.2.29   show talloc-context (application|all) (full|brief|DEPTH) filter REGEXP

Command

```
show talloc-context (application|all) (full|brief|DEPTH) filter REGEXP
```

Parameters

show

Show running system information

talloc-context

Show talloc memory hierarchy

application

Application's context

all

All contexts, if NULL-context tracking is enabled

full

Display a full talloc memory hierarchy

brief

Display a brief talloc memory hierarchy

DEPTH

Specify required maximal depth value

filter

Filter chunks using regular expression

REGEXP

Regular expression

1.2.30   show talloc-context (application|all) (full|brief|DEPTH) tree ADDRESS

Command

```
show talloc-context (application|all) (full|brief|DEPTH) tree ADDRESS
```

Parameters

show

Show running system information

talloc-context

Show talloc memory hierarchy

application

Application's context

all

All contexts, if NULL-context tracking is enabled

full

    Display a full talloc memory hierarchy

brief

    Display a brief talloc memory hierarchy

DEPTH

    Specify required maximal depth value

tree

    Display only a specific memory chunk

ADDRESS

    Chunk address (e.g. 0xdeadbeef)

1.2.31 show version

Command

```
show version
```

Parameters

show

    Show running system information

version

    Displays program version

1.2.32 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)

1.2.33 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

1.2.34 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 free-endpoint <0-64> NUMBER

Command

```
free-endpoint <0-64> NUMBER
```

Parameters

free-endpoint
> Free the given endpoint

<0-64>
> Trunk number

NUMBER
> Endpoint number in hex.

1.3.5 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

1.3.6 logging disable

Command

```
logging disable
```

Parameters

logging
    Configure logging

disable
    Disables logging to this vty

1.3.7 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

1.3.8 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

1.3.9 logging level (rtp|iuup|lglobal|llapd|linp|lmux|lmi|lmib|lsms|lctrl|lgtp|lstats|...

Command

```
logging level (rtp|iuup|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

rtp

    RTP stream handling

iuup

    IuUP within RTP stream handling

lglobal

    Library-internal global log family

llapd

    LAPD in libosmogsm

linp

    A-bis Intput 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

1.3.10   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

1.3.11   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

1.3.12   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

1.3.13   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>')

1.3.14 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

1.3.15 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.

1.3.16   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

1.3.17   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

1.3.18   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

1.3.19   loop-endpoint <0-64> NAME (0|1)

Command

```
loop-endpoint <0-64> NAME (0|1)
```

Parameters

loop-endpoint
   Loop a given endpoint

<0-64>
   Trunk number

NAME
   The name in hex of the endpoint

0
   Disable the loop

1
   Enable the loop

1.3.20   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>'

1.3.21 reset-all-endpoints

Command

```
reset-all-endpoints
```

Parameters

reset-all-endpoints

   Reset all endpoints

1.3.22 reset-endpoint <0-64> NUMBER

Command

```
reset-endpoint <0-64> NUMBER
```

Parameters

reset-endpoint

   Reset the given endpoint

<0-64>

   Trunk number

NUMBER

   Endpoint number in hex.

1.3.23 show alarms

Command

```
show alarms
```

Parameters

show

   Show running system information

alarms

   Show current logging configuration

1.3.24   show asciidoc counters

Command

```
show asciidoc counters
```

Parameters

show

Show running system information

asciidoc

Asciidoc generation

counters

Generate table of all registered counters

1.3.25   show history

Command

```
show history
```

Parameters

show

Show running system information

history

Display the session command history

1.3.26   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

1.3.27 show mgcp [stats]

Command

```
show mgcp [stats]
```

Parameters

show

   Show running system information

mgcp

   Display information about the MGCP Media Gateway

[stats]

   Include Statistics

1.3.28 show mgcp endpoint NAME

Command

```
show mgcp endpoint NAME
```

Parameters

show

   Show running system information

mgcp

   Display information about the MGCP Media Gateway

endpoint

   Display information about an endpoint

NAME

   The name of the endpoint

1.3.29 show mgcp trunk <0-64> endpoint NAME

Command

```
show mgcp trunk <0-64> endpoint NAME
```

Parameters

show

   Show running system information

mgcp

   Display information about the MGCP Media Gateway

trunk

> Display information about a trunk

<0-64>

> Trunk number

endpoint

> Display information about an endpoint

NAME

> The name of the endpoint

1.3.30 show online-help

Command

```
show online-help
```

Parameters

show

> Show running system information

online-help

> Online help

1.3.31 show rate-counters

Command

```
show rate-counters
```

Parameters

show

> Show running system information

rate-counters

> Show all rate counters

1.3.32 show startup-config

Command

```
show startup-config
```

Parameters

show

> Show running system information

startup-config

> Contentes of startup configuration

1.3.33   show stats

Command

```
show stats
```

Parameters

show

  Show running system information

stats

  Show statistical values

1.3.34   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

1.3.35   show talloc-context (application|all) (full|brief|DEPTH)

Command

```
show talloc-context (application|all) (full|brief|DEPTH)
```

Parameters

show

  Show running system information

talloc-context

>Show talloc memory hierarchy

application

>Application's context

all

>All contexts, if NULL-context tracking is enabled

full

>Display a full talloc memory hierarchy

brief

>Display a brief talloc memory hierarchy

DEPTH

>Specify required maximal depth value

1.3.36 show talloc-context (application|all) (full|brief|DEPTH) filter REGEXP

Command

```
show talloc-context (application|all) (full|brief|DEPTH) filter REGEXP
```

Parameters

show

>Show running system information

talloc-context

>Show talloc memory hierarchy

application

>Application's context

all

>All contexts, if NULL-context tracking is enabled

full

>Display a full talloc memory hierarchy

brief

>Display a brief talloc memory hierarchy

DEPTH

>Specify required maximal depth value

filter

>Filter chunks using regular expression

REGEXP

>Regular expression

1.3.37   show talloc-context (application|all) (full|brief|DEPTH) tree ADDRESS

Command

```
show talloc-context (application|all) (full|brief|DEPTH) tree ADDRESS
```

Parameters

show
    Show running system information

talloc-context
    Show talloc memory hierarchy

application
    Application's context

all
    All contexts, if NULL-context tracking is enabled

full
    Display a full talloc memory hierarchy

brief
    Display a brief talloc memory hierarchy

DEPTH
    Specify required maximal depth value

tree
    Display only a specific memory chunk

ADDRESS
    Chunk address (e.g. 0xdeadbeef)

1.3.38   show version

Command

```
show version
```

Parameters

show
    Show running system information

version
    Displays program version

1.3.39 tap-rtp <0-64> ENDPOINT CONN (in|out) A.B.C.D <0-65534>

Command

```
tap-rtp <0-64> ENDPOINT CONN (in|out) A.B.C.D <0-65534>
```

Parameters

tap-rtp

Forward data on endpoint to a different system

<0-64>

Trunk number

ENDPOINT

The endpoint in hex

CONN

The connection id in hex

in

Forward incoming data

out

Forward leaving data

A.B.C.D

destination IP of the data

<0-65534>

destination port

1.3.40 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)

1.3.41 terminal monitor

Command

```
terminal monitor
```

Parameters

terminal
      Set terminal line parameters

monitor
      Copy debug output to the current terminal line

1.3.42 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

1.3.43 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

1.3.44 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 banner motd default

Command

```
banner motd default
```

Parameters

banner

  Set banner string

motd

  Strings for motd

default

  Default string

1.4.2 banner motd file [FILE]

Command

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

Parameters

banner

  Set banner

motd

  Banner for motd

file

  Banner from a file

[FILE]

  Filename

1.4.3 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

1.4.4 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

1.4.5 hostname WORD

Command
```
hostname WORD
```

Parameters

hostname

Set system's network name

WORD

This system's network name

1.4.6 line vty

Command

```
line vty
```

Parameters

line

  Configure a terminal line

vty

  Virtual terminal

1.4.7 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

1.4.8 log file .FILENAME

Command

```
log file .FILENAME
```

Parameters

log

  Configure logging sub-system

file

  Logging to text file

.FILENAME

  Filename

1.4.9 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)

1.4.10 log stderr

Command

```
log stderr
```

Parameters

log
    Configure logging sub-system

stderr
    Logging via STDERR of the process

1.4.11 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

1.4.12   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

1.4.13   mgcp

Command

```
mgcp
```

Parameters

mgcp

    Configure the MGCP

1.4.14 no banner motd

Command

```
no banner motd
```

Parameters

no
    Negate a command or set its defaults

banner
    Set banner string

motd
    Strings for motd

1.4.15 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

1.4.16 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

1.4.17 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

1.4.18 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

1.4.19 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

1.4.20 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

1.4.21 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

1.4.22 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)

1.4.23 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

1.4.24 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

1.4.25 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

1.4.26 password LINE

Command

```
password LINE
```

Parameters

password

> Assign the terminal connection password

LINE

> The UNENCRYPTED (cleartext) line password

1.4.27 service advanced-vty

Command

```
service advanced-vty
```

Parameters

service

> Set up miscellaneous service

advanced-vty

> Enable advanced mode vty interface

1.4.28 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)

1.4.29 show history

Command

```
show history
```

Parameters

show

Show running system information

history

Display the session command history

1.4.30 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

1.4.31 stats reporter log

Command

```
stats reporter log
```

Parameters

stats

Configure stats sub-system

reporter

Configure a stats reporter

log

Report to the logger

1.4.32 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 (rtp|iuup|lglobal|llapd|linp|lmux|lmi|lmib|lsms|lctrl|lgtp|lstats|...

Command

```
logging level (rtp|iuup|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

rtp
    RTP stream handling

iuup
    IuUP within RTP stream handling

lglobal
    Library-internal global log family

llapd

    LAPD in libosmogsm

linp

    A-bis Intput 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-mgcp**

1.8.1 **allow-transcoding**

Command

```
allow-transcoding
```

Parameters

allow-transcoding
  Allow transcoding

1.8.2 **bind early (0|1)**

Command

```
bind early (0|1)
```

Parameters

bind

> Listen/Bind related socket option

early

> Bind local ports on start up

0

> Bind on demand

1

> Bind on startup

1.8.3 bind ip A.B.C.D

Command

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

Parameters

bind

> Listen/Bind related socket option

ip

> IP information

A.B.C.D

> IPv4 Address to bind to

1.8.4 bind port <0-65534>

Command

```
bind port <0-65534>
```

Parameters

bind

> Listen/Bind related socket option

port

> Port information

<0-65534>

> UDP port to listen for MGCP messages

1.8.5 call-agent ip A.B.C.D

Command

```
call-agent ip A.B.C.D
```

Parameters

call-agent

Callagent information

ip

IP information

A.B.C.D

IPv4 Address of the callagent

1.8.6 domain NAME

Command

```
domain NAME
```

Parameters

domain

Set the domain part expected in MGCP messages' endpoint names

NAME

Qualified domain name expected in MGCP endpoint names, or '*' to accept any domain

1.8.7 force-realloc (0|1)

Command

```
force-realloc (0|1)
```

Parameters

force-realloc

Force endpoint reallocation when the endpoint is still seized

0

Don't force reallocation

1

force reallocation

1.8.8   local ip A.B.C.D

Command

```
local ip A.B.C.D
```

Parameters

local

   Local options for the SDP record

ip

   IP information

A.B.C.D

   IPv4 Address to use in SDP record

1.8.9   loop (0|1)

Command

```
loop (0|1)
```

Parameters

loop

   Loop audio for all endpoints on main trunk

0

   Don't Loop

1

   Loop

1.8.10   no allow-transcoding

Command

```
no allow-transcoding
```

Parameters

no

   Negate a command or set its defaults

allow-transcoding

   Allow transcoding

1.8.11 no rtcp-omit

Command

```
no rtcp-omit
```

Parameters

no

Negate a command or set its defaults

rtcp-omit

Drop RTCP packets in both directions

1.8.12 no rtp bind-ip

Command

```
no rtp bind-ip
```

Parameters

no

Negate a command or set its defaults

rtp

RTP configuration

bind-ip

Bind endpoints facing the Network

1.8.13 no rtp force-ptime

Command

```
no rtp force-ptime
```

Parameters

no

Negate a command or set its defaults

rtp

RTP configuration

force-ptime

Force a fixed ptime for packets sent

1.8.14 no rtp ip-probing

Command

```
no rtp ip-probing
```

Parameters

no
> Negate a command or set its defaults

rtp
> RTP configuration

ip-probing
> no automatic rtp bind ip selection

1.8.15 no rtp keep-alive

Command

```
no rtp keep-alive
```

Parameters

no
> Negate a command or set its defaults

rtp
> RTP configuration

keep-alive
> Send dummy UDP packet to net RTP destination

1.8.16 no rtp-patch

Command

```
no rtp-patch
```

Parameters

no
> Negate a command or set its defaults

rtp-patch
> Modify RTP packet header in both directions

1.8.17 no rtp-patch ssrc

Command

```
no rtp-patch ssrc
```

Parameters

no

Negate a command or set its defaults

rtp-patch

Modify RTP packet header in both directions

ssrc

Force a fixed SSRC

1.8.18 no rtp-patch timestamp

Command

```
no rtp-patch timestamp
```

Parameters

no

Negate a command or set its defaults

rtp-patch

Modify RTP packet header in both directions

timestamp

Adjust RTP timestamp

1.8.19 no sdp audio-payload send-name

Command

```
no sdp audio-payload send-name
```

Parameters

no

Negate a command or set its defaults

sdp

SDP File related options

audio-payload

Audio payload options

send-name

Send SDP rtpmap with the audio name

1.8.20 **no sdp audio-payload send-ptime**

Command

```
no sdp audio-payload send-ptime
```

Parameters

no

Negate a command or set its defaults

sdp

SDP File related options

audio-payload

Audio payload options

send-ptime

Send SDP ptime (packet duration) attribute

1.8.21 **number endpoints <0-65534>**

Command

```
number endpoints <0-65534>
```

Parameters

number

Number options

endpoints

Endpoints available

<0-65534>

Number endpoints

1.8.22 **osmux (on|off|only)**

Command

```
osmux (on|off|only)
```

Parameters

osmux

RTP multiplexing

on

Enable OSMUX

off

Disable OSMUX

only

Only use OSMUX

1.8.23 osmux batch-factor <1-8>

Command

```
osmux batch-factor <1-8>
```

Parameters

osmux
   RTP multiplexing

batch-factor
   Batching factor

<1-8>
   Number of messages in the batch

1.8.24 osmux batch-size <1-65535>

Command

```
osmux batch-size <1-65535>
```

Parameters

osmux
   RTP multiplexing

batch-size
   batch size

<1-65535>
   Batch size in bytes

1.8.25 osmux bind-ip A.B.C.D

Command

```
osmux bind-ip A.B.C.D
```

Parameters

osmux
   RTP multiplexing

bind-ip
   IP information

A.B.C.D
   IPv4 Address to bind to

1.8.26   osmux dummy (on|off)

Command

```
osmux dummy (on|off)
```

Parameters

osmux

   RTP multiplexing

dummy

   Dummy padding

on

   Enable dummy padding

off

   Disable dummy padding

1.8.27   osmux port <1-65535>

Command

```
osmux port <1-65535>
```

Parameters

osmux

   RTP multiplexing

port

   port

<1-65535>

   UDP port

1.8.28   rtcp-omit

Command

```
rtcp-omit
```

Parameters

rtcp-omit

   Drop RTCP packets in both directions

1.8.29 rtp bind-ip A.B.C.D

Command

```
rtp bind-ip A.B.C.D
```

Parameters

rtp

RTP configuration

bind-ip

Bind endpoints facing the Network

A.B.C.D

Address to bind to

1.8.30 rtp force-ptime (10|20|40)

Command

```
rtp force-ptime (10|20|40)
```

Parameters

rtp

RTP configuration

force-ptime

Force a fixed ptime for packets sentThe required ptime (packet duration) in ms

10

10 ms

20

20 ms

40

40 ms

1.8.31 rtp ip-dscp <0-255>

Command

```
rtp ip-dscp <0-255>
```

Parameters

rtp

RTP configuration

ip-dscp

Apply IP_TOS to the audio stream (including Osmux)

<0-255>

The DSCP value

1.8.32   rtp ip-probing

Command

```
rtp ip-probing
```

Parameters

rtp

   RTP configuration

ip-probing

   automatic rtp bind ip selection

1.8.33   rtp keep-alive <1-120>

Command

```
rtp keep-alive <1-120>
```

Parameters

rtp

   RTP configuration

keep-alive

   Send dummy UDP packet to net RTP destination

<1-120>

   Keep alive interval in secs

1.8.34   rtp keep-alive once

Command

```
rtp keep-alive once
```

Parameters

rtp

   RTP configuration

keep-alive

   Send dummy UDP packet to net RTP destination

once

   Send dummy packet only once after CRCX/MDCX

1.8.35 rtp port-range <1024-65534> <1025-65535>

Command

```
rtp port-range <1024-65534> <1025-65535>
```

Parameters

rtp

    RTP configuration

port-range

    Range of ports to use for the NET side

<1024-65534>

    Start of the range of ports

<1025-65535>

    End of the range of ports

1.8.36 rtp-accept-all (0|1)

Command

```
rtp-accept-all (0|1)
```

Parameters

rtp-accept-all

    Accept all RTP packets, even when the originating IP/Port does not match

0

    enable filter

1

    disable filter

1.8.37 rtp-patch ssrc

Command

```
rtp-patch ssrc
```

Parameters

rtp-patch

    Modify RTP packet header in both directions

ssrc

    Force a fixed SSRC

1.8.38 rtp-patch timestamp

Command

```
rtp-patch timestamp
```

Parameters

rtp-patch
> Modify RTP packet header in both directions

timestamp
> Adjust RTP timestamp

1.8.39 sdp audio fmtp-extra .NAME

Command

```
sdp audio fmtp-extra .NAME
```

Parameters

sdp
> Add extra fmtp for the SDP file

audio
> Audio

fmtp-extra
> Fmtp-extra

.NAME
> Extra Information

1.8.40 sdp audio-payload name NAME

Command

```
sdp audio-payload name NAME
```

Parameters

sdp
> SDP File related options

audio-payload
> Audio payload options

name
> Name

NAME
> Payload name

1.8.41 sdp audio-payload number <0-255>

Command

```
sdp audio-payload number <0-255>
```

Parameters

sdp
>   SDP File related options

audio-payload
>   Audio payload options

number
>   Number

<0-255>
>   Payload number

1.8.42 sdp audio-payload send-name

Command

```
sdp audio-payload send-name
```

Parameters

sdp
>   SDP File related options

audio-payload
>   Audio payload options

send-name
>   Send SDP rtpmap with the audio name

1.8.43 sdp audio-payload send-ptime

Command

```
sdp audio-payload send-ptime
```

Parameters

sdp
>   SDP File related options

audio-payload
>   Audio payload options

send-ptime
>   Send SDP ptime (packet duration) attribute

1.8.44   trunk <1-64>

Command

```
trunk <1-64>
```

Parameters

trunk

>   Configure a SS7 trunk

<1-64>

>   Trunk Nr

1.9   config-mgcp-trunk

1.9.1   allow-transcoding

Command

```
allow-transcoding
```

Parameters

allow-transcoding

>   Allow transcoding

1.9.2   loop (0|1)

Command

```
loop (0|1)
```

Parameters

loop

>   Loop audio for all endpoints on this trunk

0

>   Don't Loop

1

>   Loop

1.9.3 no allow-transcoding

Command

```
no allow-transcoding
```

Parameters

no

Negate a command or set its defaults

allow-transcoding

Allow transcoding

1.9.4 no rtcp-omit

Command

```
no rtcp-omit
```

Parameters

no

Negate a command or set its defaults

rtcp-omit

Drop RTCP packets in both directions

1.9.5 no rtp keep-alive

Command

```
no rtp keep-alive
```

Parameters

no

Negate a command or set its defaults

rtp

RTP configuration

keep-alive

Send dummy UDP packet to net RTP destination

1.9.6 no rtp-patch

Command

```
no rtp-patch
```

Parameters

no

Negate a command or set its defaults

rtp-patch

Modify RTP packet header in both directions

1.9.7 no rtp-patch ssrc

Command

```
no rtp-patch ssrc
```

Parameters

no

Negate a command or set its defaults

rtp-patch

Modify RTP packet header in both directions

ssrc

Force a fixed SSRC

1.9.8 no rtp-patch timestamp

Command

```
no rtp-patch timestamp
```

Parameters

no

Negate a command or set its defaults

rtp-patch

Modify RTP packet header in both directions

timestamp

Adjust RTP timestamp

1.9.9   no sdp audio-payload send-name

Command

```
no sdp audio-payload send-name
```

Parameters

no

>   Negate a command or set its defaults

sdp

>   SDP File related options

audio-payload

>   Audio payload options

send-name

>   Send SDP rtpmap with the audio name

1.9.10   no sdp audio-payload send-ptime

Command

```
no sdp audio-payload send-ptime
```

Parameters

no

>   Negate a command or set its defaults

sdp

>   SDP File related options

audio-payload

>   Audio payload options

send-ptime

>   Send SDP ptime (packet duration) attribute

1.9.11   rtcp-omit

Command

```
rtcp-omit
```

Parameters

rtcp-omit

>   Drop RTCP packets in both directions

1.9.12 rtp keep-alive <1-120>

Command

```
rtp keep-alive <1-120>
```

Parameters

rtp

RTP configuration

keep-alive

Send dummy UDP packet to net RTP destination

<1-120>

Keep-alive interval in secs

1.9.13 rtp keep-alive once

Command

```
rtp keep-alive once
```

Parameters

rtp

RTP configuration

keep-alive

Send dummy UDP packet to net RTP destination

once

Send dummy packet only once after CRCX/MDCX

1.9.14 rtp-patch ssrc

Command

```
rtp-patch ssrc
```

Parameters

rtp-patch

Modify RTP packet header in both directions

ssrc

Force a fixed SSRC

1.9.15 rtp-patch timestamp

Command

```
rtp-patch timestamp
```

Parameters

rtp-patch

> Modify RTP packet header in both directions

timestamp

> Adjust RTP timestamp

1.9.16 sdp audio fmtp-extra .NAME

Command

```
sdp audio fmtp-extra .NAME
```

Parameters

sdp

> Add extra fmtp for the SDP file

audio

> Audio

fmtp-extra

> Fmtp-extra

.NAME

> Extra Information

1.9.17 sdp audio-payload name NAME

Command

```
sdp audio-payload name NAME
```

Parameters

sdp

> SDP File related options

audio-payload

> Audio payload options

name

> Payload

NAME

> Payload Name

1.9.18 sdp audio-payload number <0-255>

Command

```
sdp audio-payload number <0-255>
```

Parameters

sdp

SDP File related options

audio-payload

Audio payload options

number

Number

<0-255>

Payload Number

1.9.19 sdp audio-payload send-name

Command

```
sdp audio-payload send-name
```

Parameters

sdp

SDP File related options

audio-payload

Audio payload options

send-name

Send SDP rtpmap with the audio name

1.9.20 sdp audio-payload send-ptime

Command

```
sdp audio-payload send-ptime
```

Parameters

sdp

SDP File related options

audio-payload

Audio payload options

send-ptime

Send SDP ptime (packet duration) attribute