

System log configuration

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The **LOGGING** commands allow you to configure such parameters as log storage location (local file, remote file), number and size of these files, message filtering rules.

logging console

The command allows you to set the level of syslog messages that will be displayed in the console in one of two modes: either display all messages with the level not lower than the specified one, or only with this level.

The use of a negative form (no) of the command sets the default value.

Syntax

```
[no] logging console <SEVERITY>
```

Parameters

<SEVERITY> – syslog message level for output: 'emerg', 'alert', 'crit', 'error', 'warning', 'notice', 'info', 'debug'.

Default value

info

Command mode

CONFIG

Example

```
ma4000(config)# logging console debug
```

logging file

This command specifies the name of the local file where the log is stored, as well as the level of messages that are stored in this file.

The use of a negative form (no) of the command sets the default value.

Syntax

```
[no] logging file <FILE> <SEVERITY>
```

Parameters

<FILE> – file name, up to 255 characters long;

<SEVERITY> – level of messages, that saved in file.

Command mode

CONFIG

Example

```
ma4000(config)# logging file test alert
```

logging file-size

This command allows to set the maximum log file size in kilobytes. When one file is exhausted, the system will create the next one according to the max-files setting (see loggingmax-files).

The use of a negative form (no) of the command restores the default value.

Syntax

```
logging file-size <SIZE>  
no logging file-size
```

Parameters

<SIZE> – allowed size of log file. Values between 100 and 10000 Kbytes are allowed.

Default value

500 KB

Command mode

CONFIG

Example

```
ma4000(config)# logging file-size 1000
```

logging filter

The command allows to switch to the configuration mode of a separate filter rule by its name, a detailed description of the LOGFILTER mode is given in [Sy slog filters configuration. LOGFILTER command mode](#) section.

The use of the negative form (no) of the command remove filter by its name.

Syntax

```
[no] logging filter <FILE>
```

Parameters

<FILE> – file name, up to 255 characters.

Command mode

CONFIG

Example

```
ma4000(config)# logging filter test  
ma4000(pp4x-config-log-filter-test)#
```

logging builtin-filter

The command allows to switch to the configuration mode of the filter rule of a predefined slot.

Syntax

```
logging builtin-filter <NAME>
```

Parameters

<NAME> – slot name or PP4X card, may take values: 'pp', 'pp-other', 'slot0', 'slot1', 'slot2', 'slot3', 'slot4', 'slot5', 'slot6', 'slot7', 'slot8', 'slot9', 'slot10', 'slot11', 'slot12', 'slot13', 'slot14', 'slot15'.

Command mode

CONFIG

Example

```
ma4000(config)# logging builtin-filter pp
ma4000(pp4x-config-log-filter-pp)#
```

logging host

This command allows to set the mode of log saving to a remote address.

The use of a negative form (no) of the command cancels the remote logging.

Syntax

```
logging host <HOST> port <PORT> transport <TRANSPORT> <SEVERITY>
no logging host
```

Parameters

<HOST> – IP address of the remote host to save the log file;

<PORT> – port number for communication with the remote host from 1 to 65535;

<TRANSPORT> – transmission packets type: tcp or udp;

<SEVERITY> – level of messages, that saved in file.

Command mode

CONFIG

Example

```
ma4000(config)# logging host 192.168.1.2 port 1024 transport tcp debug
```

logging max-files

This command specifies the maximum number of log-files to be stored in the system. When the last available one is filled in, the system will go back to the first one.

The use of a negative form (no) of the command returns the default value.

Syntax

```
logging max-files <FILE_NUM>
no logging max-files
```

Parameters

<FILE_NUM> – maximum log file number, may take values [1 .. 1000].

Default value

3

Command mode

CONFIG

Example

```
ma4000(config)# logging max-files 20
```

logging storage persistent

The command allows to specify the mode of saving log-files in memory. Log files will either be created from scratch every time you start the MA4000, or saved between restarts.

The use of a negative form (no) of the command returns the storage mode to temporary.

Syntax

```
[no] logging storage persistent
```

Parameters

The command contains no arguments.

Command mode

CONFIG

Example

```
ma4000(config)# logging storage persistent
```

logging monitor

The command allows to set the level of SYSLOG messages that will be displayed at remote SSH and TELNET sessions in one of two modes: either display all messages with the level not lower than the specified one, or only with this level.

The use of a negative form (no) of the command removes a set mode.

Syntax

```
logging monitor <SEVERITY>  
no logging monitor
```

Parameters

<SEVERITY> – syslog message level for output: 'emerg', 'alert', 'crit', 'error', 'warning', 'notice', 'info', 'debug'.

Default value

info

Command mode

CONFIG

Example

```
ma4000(config)# logging monitor debug
```

clear log

This command allows to delete log-files stored in local memory of MA4000-PX.

Syntax

```
clear log [file <FILE>]
```

Parameters

<FILE> – log file name to delete, optional . If file name is not specified, all log files stored in local device memory will be deleted.

Command mode

ROOT

Example

```
ma4000# clear log file slot0
```

show log

This command allows to view the list of log files stored in local memory of MA4000-PX. If file name is specified, the content of the log file will be displayed.

Syntax

```
show log [<FILE>]
```

Parameters

<FILE> – log file name, optional.

Command mode

ROOT

Example

```
ma4000# showlog

Log files
~~~~~
##      Name                Size in bytes    Date of last modification
-----
1       daemon              447             Tue Feb  4 12:01:39 2014
2       pp                  188073          Tue Feb  4 12:01:39 2014
3       slot0               6132            Tue Feb  4 12:03:41 2014
4       slot0.1             511983          Tue Feb  4 09:23:56 2014
5       slot0.2             511867          Tue Feb  4 09:23:56 2014
6       slot0.3             511915          Tue Feb  4 09:23:56 2014
-----
Total files: 6
```

show logging config

This command allows to view log settings for saving MA4000 log files.

Syntax

```
show logging config
```

Parameters

The command contains no arguments.

Command mode

ROOT

Example

```
ma4000# show logging config
```

```
Logging max files - 3
Logging file size - 500
```

Criteria filter table:

Name	Emerg	Alert	Crit	Error	Warn	Notce	Info	Debug
console	+	+	+	+	+	+	-	-
monitor	+	+	+	+	+	+	+	+
slot0	+	+	+	+	+	+	+	-
slot1	+	+	+	+	+	+	+	-
slot2	+	+	+	+	+	+	+	-
slot3	+	+	+	+	+	+	+	-
slot4	+	+	+	+	+	+	+	-
slot5	+	+	+	+	+	+	+	-
slot6	+	+	+	+	+	+	+	-
slot7	+	+	+	+	+	+	+	-
slot8	+	+	+	+	+	+	+	-
slot9	+	+	+	+	+	+	+	-
slot10	+	+	+	+	+	+	+	-
slot11	+	+	+	+	+	+	+	-
slot12	+	+	+	+	+	+	+	-
slot13	+	+	+	+	+	+	+	-
slot14	+	+	+	+	+	+	+	-
slot15	+	+	+	+	+	+	+	-
pp	+	+	+	+	+	+	+	-
pp-other	+	+	+	+	+	+	+	-

File target table:

Filter name	File name
slot0	slot0
slot1	slot1
slot2	slot2
slot3	slot3
slot4	slot4
slot5	slot5
slot6	slot6
slot7	slot7
slot8	slot8
slot9	slot9
slot10	slot10
slot11	slot11
slot12	slot12
slot13	slot13
slot14	slot14
slot15	slot15
pp	pp
pp-other	pp-other
load-1-3-2_51#	