

## ***19- SYSLOG Configuration Commands***

---

<b>19.1 SYSLOG Configuration Command Tree</b>	<b>19-830</b>
<b>19.2 Syslog Configuration Commands</b>	<b>19-831</b>
<b>19.3 SYSLOG Destination Configuration command</b>	<b>19-832</b>
<b>19.4 SYSLOG Route Configuration Command</b>	<b>19-835</b>

## 19.1 SYSLOG Configuration Command Tree

### Description

This chapter gives an overview of nodes that are handled by "SYSLOG Configuration Commands".

### Command Tree

```
----configure
  ----system
    ----syslog
      - [no] version
      - [no] time-format
      ----[no] destination
        - (name)
        - type
        - [no] disable
        - [no] upload-rotate
        - [no] persist-enable
        - [no] persist-timer
      ----[no] route
        - (name)
        - msg-type
        - facility
        - [no] syslog-vlan
        - [no] emergency
        - [no] alert
        - [no] critical
        - [no] error
        - [no] warning
        - [no] notice
        - [no] information
        - [no] debug
```

## 19.2 Syslog Configuration Commands

### Command Description

*Version parameter allows the operator to configure the syslog RFC version to be used. by default rfc3164 will be used, Change in the RFC version clears syslog counters, queues and files.*

*Timeformat parameter allows the operator to configure the timestamp format to be used for rfc5424 syslog version. By default timewithoutzone (yyyy-mm-ddThr:min:sec.secfraZ) format will be used. If Syslog version is configured as rfc3164, then mm-dd:hrs:mins:secs format will be used by default.*

### User Level

*The command can be accessed by operators with security privileges, and executed by operators with security privileges.*

### Command Syntax

The command has the following syntax:

```
> configure system syslog [ no version | version <Syslog::Version> ] [ no time-format | time-format <Syslog::TimeFormat> ]
```

### Command Parameters

**Table 19.2-2 "Syslog Configuration Commands" Command Parameters**

Parameter	Type	Description
[no] version	Parameter type: <Syslog::Version> Format: ( rfc3164   rfc5424 ) Possible values: - rfc3164 : rfc3164 is selected for syslog version - rfc5424 : rfc5424 is selected for syslog version	<i>optional parameter with default value: "rfc3164"</i> the RFC version that is to be used for Syslog. Change in the RFC version clears syslog counters, queues and files
[no] time-format	Parameter type: <Syslog::TimeFormat> Format: ( timewithoutzone   timewithzone ) Possible values: - timewithoutzone : timewithoutzone(yyyy-mm-ddThr:min:sec.secfraZ) format is selected - timewithzone : timewithzone(yyyy-mm-ddThr:min:sec.secfraZ(+/-)hh:mm) format is selected	<i>optional parameter with default value: "timewithoutzone"</i> the TimeStamp Format is to be used for rfc5424 Syslog version

## 19.3 SYSLOG Destination Configuration command

### Command Description

*This command allows the operator to configure a syslog destination. Log messages can be sent to a file or, for rotated files, to a file on a designated upload server (file:), a remote server (udp:), all logged in CLI-users (all-cli) or all logged in TL1-users (all-tl1) or both (all-users).*

### User Level

*The command can be accessed by operators with security privileges, and executed by operators with security privileges.*

### Command Syntax

The command has the following syntax:

```
> configure system syslog ( no destination (name) ) | ( destination (name) type <Sys::ServerType> [ [ no ] disable ]
[ [ no ] upload-rotate ] [ [ no ] persist-enable ] [ no persist-timer | persist-timer <Sys::PersistTimer> ] )
```

### Command Parameters

**Table 19.3-1 "SYSLOG Destination Configuration command" Resource Parameters**

Resource Identifier	Type	Description
(name)	Format: - a profile name - range: [a-zA-Z0-9-_.] - length: 1<=x<=32	name of the syslog destination

**Table 19.3-2 "SYSLOG Destination Configuration command" Command Parameters**

Parameter	Type	Description
type	Parameter type: <Sys::ServerType> Format: ( file : <Sys::ServName> : <Sys::FileSize>   remote-file : <Ip::V4Address> : <Sys::UploadPathName> : <Sys::ServName> : <Sys::FileSize>   udp : <Ip::V4Address> : <Sys::NetworkPort> : unlimited   udp : <Ip::V4Address> : <Sys::NetworkPort> : <SYS::MaxRate>   all-cli   all-tl1   all-users   udp6 : <ipv6::Prefix> / <Sys::NetworkPort> : unlimited   udp6 : <ipv6::Prefix> / <Sys::NetworkPort> : <SYS::MaxRate>   remote-file6 : <ipv6::Prefix> / <Sys::UploadPathName> : <Sys::ServName> : <Sys::FileSize> ) Possible values: - file : file in which logs to be stored	mandatory parameter destination type

Parameter	Type	Description
	<ul style="list-style-type: none"> <li>- remote-file : remote file in which logs to be stored</li> <li>- udp : log messages to the destination</li> <li>- all-cli : cli users terminal logging</li> <li>- all-tl1 : tl1 users terminal logging</li> <li>- all-users : all cli and tl1 users</li> <li>- udp6 : log messages to ipv6 destination</li> <li>- remote-file6 : remote file in which logs to be stored via v6 server</li> </ul> Field type <Ip::V4Address> <ul style="list-style-type: none"> <li>- IPv4-address</li> </ul> Field type <ipv6::Prefix> <ul style="list-style-type: none"> <li>- IPv6-address</li> </ul> Field type <Sys::UploadPathName> <ul style="list-style-type: none"> <li>- an absolute or relative path name (example : /var/log/), path name must end with slash or backslash depending on OS of TFTP server used</li> </ul> <ul style="list-style-type: none"> <li>- length: 1&lt;=x&lt;=64</li> </ul> Field type <Sys::ServName> <ul style="list-style-type: none"> <li>- filename in which logs to be stored</li> </ul> <ul style="list-style-type: none"> <li>- range: [a-zA-Z0-9-_.]</li> </ul> <ul style="list-style-type: none"> <li>- length: 1&lt;=x&lt;=12</li> </ul> Field type <Sys::FileSize> <ul style="list-style-type: none"> <li>- the maximum file size in bytes</li> </ul> <ul style="list-style-type: none"> <li>- range: [1...980000]</li> </ul> Field type <Sys::NetworkPort> <ul style="list-style-type: none"> <li>- the network port number</li> </ul> <ul style="list-style-type: none"> <li>- range: [1...65535]</li> </ul> Possible values: <ul style="list-style-type: none"> <li>- unlimited : transfer rate is unlimited, 0 equals unlimited</li> </ul> Field type <SYS::MaxRate> <ul style="list-style-type: none"> <li>- transfer rate</li> <li>- unit: messages/second</li> <li>- range: [1...2147483647]</li> </ul>	
[no] disable	Parameter type: boolean	<i>optional parameter</i> disable logging to the destination
[no] upload-rotate	Parameter type: boolean	<i>optional parameter</i> enable upload of rotated files to a configured path
[no] persist-enable	Parameter type: boolean	<i>optional parameter</i> enable copy of local syslog files to flash. It is not recommended to enable this feature since the many copies to compact flash may shorten its lifetime. Recommendation is to send syslog to external server. Since copy interval is every 5 mins (default), up to last 5 mins of syslog data may be lost. When enabling this feature, syslog filename must be restricted to maximum 11 characters. Using 12 characters will lead to failures.
[no] persist-timer	Parameter type: <Sys::PersistTimer> Format: <ul style="list-style-type: none"> <li>- interval at which local syslog file persistence repeats</li> <li>- unit: min</li> </ul>	<i>optional parameter with default value: "5"</i> interval at which local syslog file persistence repeats, range 5 to 60

19 SYSLOG Configuration Commands

---

Parameter	Type	Description
	- range: [5...60]	min.

## 19.4 SYSLOG Route Configuration Command

### Command Description

*This command allows an operator to configure which messages must be sent to a given syslog destination and to assign the appropriate syslog parameters to them.*

### User Level

*The command can be accessed by operators with security privileges, and executed by operators with security privileges.*

### Command Syntax

The command has the following syntax:

```
> configure system syslog ( no route (name) msg-type <Sys::MessageType> ) | ( route (name) msg-type
<Sys::MessageType> facility <Sys::LogFacility> [ no syslog-vlan | syslog-vlan <Syslog::VlanId> ] [ [ no ]
emergency ] [ [ no ] alert ] [ [ no ] critical ] [ [ no ] error ] [ [ no ] warning ] [ [ no ] notice ] [ [ no ] information ] [ [
no ] debug ] )
```

### Command Parameters

**Table 19.4-1 "SYSLOG Route Configuration Command" Resource Parameters**

Resource Identifier	Type	Description
(name)	Format: - a profile name - range: [a-zA-Z0-9-_.] - length: 1<=x<=32	name of the destination where messages must be sent to
msg-type	Parameter type: <Sys::MessageType> Format: ( all   authentication   cli-config-chgs   tl1-config-chgs   cli-msgs   tl1-msgs   tracing1   tracing2   tracing3   video-cdr   eqpt   li-config-chgs   omci   docsis   ont-prov-status   protocol   tracing4   dsl )	type of the message to be routed

Resource Identifier	Type	Description
	Possible values: - all : messages of any type - authentication : authentication messages - cli-config-chgs : cli commands - tl1-config-chgs : tl1 commands - cli-msgs : cli messages - tl1-msgs : tl1 messages - tracing1 : protocol tracing messages - tracing2 : protocol tracing messages - tracing3 : protocol tracing messages - video-cdr : video cdr messages - eqpt : equipment event messages - li-config-chgs : li-config-chgs can only be logged to a destination = encrypted file - omci : OMCI events - docsis : DOCSIS events - ont-prov-status : Ont Auto Provision Status Messages - protocol : protocol message - tracing4 : protocol tracing messages - dsl : dsl event messages	

Table 19.4-2 "SYSLOG Route Configuration Command" Command Parameters

Parameter	Type	Description
facility	Parameter type: <Sys::LogFacility> Format: ( kern   user   mail   daemon   auth   syslog   pr   news   uucp   cron   local0   local1   local2   local3   local4   local5   local6   local7 ) Possible values: - kern : kernel facility - user : user facility - mail : mail facility - daemon : daemon facility - auth : authentication facility - syslog : syslog facility - pr : printer facility - news : news facility - uucp : uucp facility - cron : cron facility - local0 : local0 facility - local1 : local1 facility - local2 : local2 facility	<i>mandatory parameter</i> facility to be set in the outgoing message



Parameter	Type	Description
	<ul style="list-style-type: none"> <li>- local3 : local3 facility</li> <li>- local4 : local4 facility</li> <li>- local5 : local5 facility</li> <li>- local6 : local6 facility</li> <li>- local7 : local7 facility</li> </ul>	
[no] syslog-vlan	Parameter type: <Syslog::VlanId> Format: - vlan id - range: [1...4093]	<i>optional parameter with default value: 0</i> Vlan of the syslog server valid only for tracing4 message type
[no] emergency	Parameter type: boolean	<i>optional parameter</i> pass messages of severity emergency
[no] alert	Parameter type: boolean	<i>optional parameter</i> pass messages of severity alert
[no] critical	Parameter type: boolean	<i>optional parameter</i> pass messages of severity critical
[no] error	Parameter type: boolean	<i>optional parameter</i> pass messages of severity error
[no] warning	Parameter type: boolean	<i>optional parameter</i> pass messages of severity warning
[no] notice	Parameter type: boolean	<i>optional parameter</i> pass messages of severity notice
[no] information	Parameter type: boolean	<i>optional parameter</i> pass messages of severity info
[no] debug	Parameter type: boolean	<i>optional parameter</i> pass messages of severity debug