SYSLOG from KX-UDS series

(KX-UDS/UDT series)

No. 45-006

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Ver.1.0

Panasonic Corporation

Abstract about this document

This document describes about how to send SYSLOG from UDS series to SYSLOG server.

Revision history

Date	Version	Revision	Firmware version
Sep 20, 2012	Ver. 1.0	Initial Release	All versions



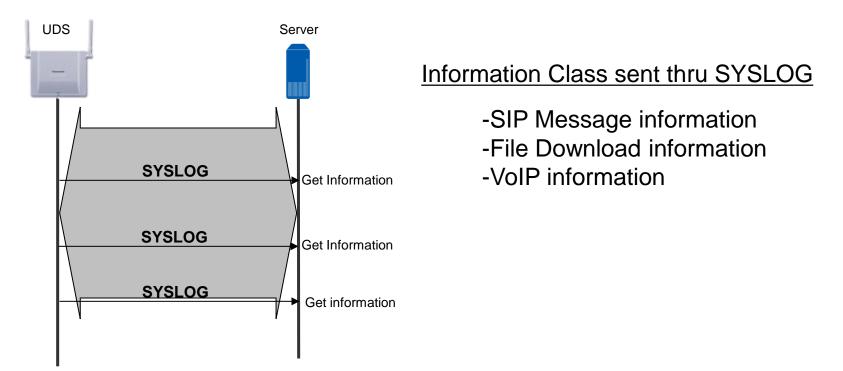
1) Explanation about overview of SYSLOG. Format

2) Explanation about type and priority of configuration files

3) Configuration of SYSLOG.

UDS/UDT series is supporting SYSLOG and SYSLOG is standard for logging messages.

We can provide several type of information by SYSLOG.



Example of SYSLOG (VoIP information)

<11>Jul 22 18:29:30 0080F0ABCDEF [SIP][Line-1:0123456789]Registration Success

<11>Jul 22 18:30:30 0080F0ABCDEF [SIP][Line-1:0123456789]Registration failure by no response

SYSLOG Format and Information class

SYSLOG Packet format

Priority part	Header part	Message part
-Priority	-Time Stamp	-Detailed message based on
-Information Class (Type)	-Host Information	the type

SYSLOG Packet information class with priority

Information	Class	Priority	Description
	SIP	Error (3)	Success / Failure REGISTER
SIP Message		information(6)	All SIP message sent / received
	FDL	warning(4)	Failure of downloading Configuration file or Firmware
File Download		information(6)	Case the response value of Configuration file and Firmware is 302
			Success of downloading Configuration file or Firmware
VoIP info	VIP	information(6)	RTCP information

Detailed of each SYSLOG format (SIP)

Message information

Priority	Generate Timing	Message Format
Error	Generated when status is changed before and after REGISTER.	[SIP][Line-n: <i>Phone Number</i>]Registration {Success end failure by {(NNN) no response DNS error internal error} Where n is Line number and (NNN) is Response code from Server.
Information	Export all information Received / Sent SIP messages	[SIP][SEND RECV]: Src= <ip addr="">:<port> Dst=<ip ADDR>:<port> <sip full="" message=""></sip></port></ip </port></ip>

Example :

<11>Jul 22 18:29:30 0080F0ABCDEF [SIP][Line-1:0123456789]Registration Success

<11>Jul 22 18:30:30 0080F0ABCDEF [SIP][Line-1:0123456789]Registration failure by no response

Detailed of each SYSLOG format (File Download)

Message information

Priority	Generate Timing	Message Format
Warning	Generate when failed of file transfer.	[FDL]File transfer failure by XXX. URL={URL+File Name} Where XXX is Error Information
Information	Generate when beginning or completion of file transfer by normally.	[FDL]File {download upload} start. URL={URL+File Name} or {Configuration Firmware Phonebook} file {download upload} start.
		[FDL]File {download upload} complete. URL={URL+File Name}

Example :

<14>Jul 22 18:29:30 0080F0ABCDEF [FDL]File download start. URL=http://www.test.com/0080F0ABCDEF.cfg
<12>Jul 22 18:29:40 0080F0ABCDEF [FDL]File transfer failure by Error Response from Server (403). URL=http://www.test.com/0080F0ABCDEF.cfg
<14>Jul 22 18:30:30 0080F0ABCDEF [FDL]Firmware file download start. URL=http://www.test.com/0080F0ABCDEF.cfg
<12>Jul 22 18:32:00 0080F0ABCDEF [FDL]File transfer failure by Version Error. URL=http://www.test.com/0080F0ABCDEF.cfg
<14>Jul 22 18:33:30 0080F0ABCDEF [FDL]Phonebook file upload start.
<14>Jul 22 18:34:30 0080F0ABCDEF [FDL]File transfer complete. URL=http://www.test.com/0080F0ABCDEF.cfg

Message information

Priority		Generate Timing	Message Format
Informat	ion	Generate RTP summery information Periodically or Finishing of one call	[VIP]Ch ID:N1 Packets sent:N2 Packets received:N3 Received packets discarded:N4 Received packets lost:N5

Included information:

- Count of sent RTP packets Total of RTP data packets that UDS sent.
- Count of received RTP packets
 Total of RTP data packets that UDS received.
- Count of discarded RTP packets
 - Total of RTP data packets that UDS discarded.
- UDS series has jitter buffer. A jitter buffer temporarily stores arriving packets in order to delay variations. If RTP packets arrive too late then are discarded.
- Count of lost RTP packets
 - Total of lost RTP data packets on network.

Example:

<14>Jul 22 18:29:30 0080F0ABCDEF [VIP]Ch ID:4 Packets sent:100 Packets received:100 Received packets discard

Please add following setting in case you'd like to monitor provisioning (downloading configuration file) status. You can see detailed information about each parameter in next page.

- SYSLOG_ADDR: Specifies the IP address or FQDN of the SYSLOG server.
- SYSLOG_PORT: Specifies the port number of the SYSLOG server.
- **SYSLOG_EVENT_SIP***1: Logs SIP-related SYSLOG events.
- SYSLOG_EVENT_CFG*1: Logs SYSLOG events regarding configuration.
 "6" is for download (provisioning) status.
- **SYSLOG_EVENT_VOIP***1: Logs SYSLOG events regarding VoIP operation.
- **SYSLOG_EVENT_TEL***1: Logs SYSLOG events regarding telephone functions.

Example:

SYSLOG Settings SYSLOG_EVENT_CFG="6" SYSLOG_ADDR="192.168.1.51" SYSLOG_PORT="514"

Note : Even though you don't have SYSLOG Server, we can capture the packet for SYSLOG by wireshark.

Explanation of each parameter

SYSLOG_EVENT_SIP

Value Format	Integer	
Description	Specifies which SIP-related syslog events are sent to the syslog server.	
	 Note If the level of the event is higher than or equal to the set value, the log is sent to the syslog server. 	
Value Range	0-6 - 0: no logs sent - 1: emergency (highest) - 2: alert - 3: critical - 4: error - 5: warning - 6: information (lowest)	
Default Value	0	

Explanation of each parameter

SYSLOG_EVENT_CFG

Value Format	Integer
Description	Specifies the threshold of syslog events regarding configuration.
Value Range	0–6
Default Value	0

SYSLOG_EVENT_VOIP

Value Format	Integer
Description	Specifies the threshold of syslog events regarding VoIP operation.
Value Range	0–6
Default Value	0

SYSLOG_EVENT_TEL

Value Format	Integer
Description	Specifies the threshold of syslog events regarding telephone functions.
	 Note This setting is not applicable for the current version. No logs will be sent to the syslog server, even if values "1–6" are specified.
Value Range	0–6
Default Value	0

SYSLOG_ADDR

Value Format	String
Description	Specifies the IP address or FQDN of the syslog server.
Value Range	Max. 127 characters (IP address in dotted-decimal notation or FQDN)
Default Value	Empty string

SYSLOG_PORT

Value Format	Integer
Description	Specifies the port number of the syslog server.
Value Range	1–65535
Default Value	514

SYSLOG_RTPSMLY_INTVL

Value Format	Integer
Description	Specifies the interval, in seconds, to send summarized information of RTP packets to the syslog server.
Value Range	0, 5–65535 (0: No information sent)
Default Value	20