

# **SYSLOG from Phone**

(KX-UT670)

No. 25-006

Dec 22 , 2011

Ver.1.0

Panasonic Corporation

## Abstract about this document

This document describes about how to send SYSLOG from phone to SYSLOG server.

## Revision history

Date	Version	Revision	Firmware version
Dec 22, 2011	Ver. 1.0	Initial Release	All versions

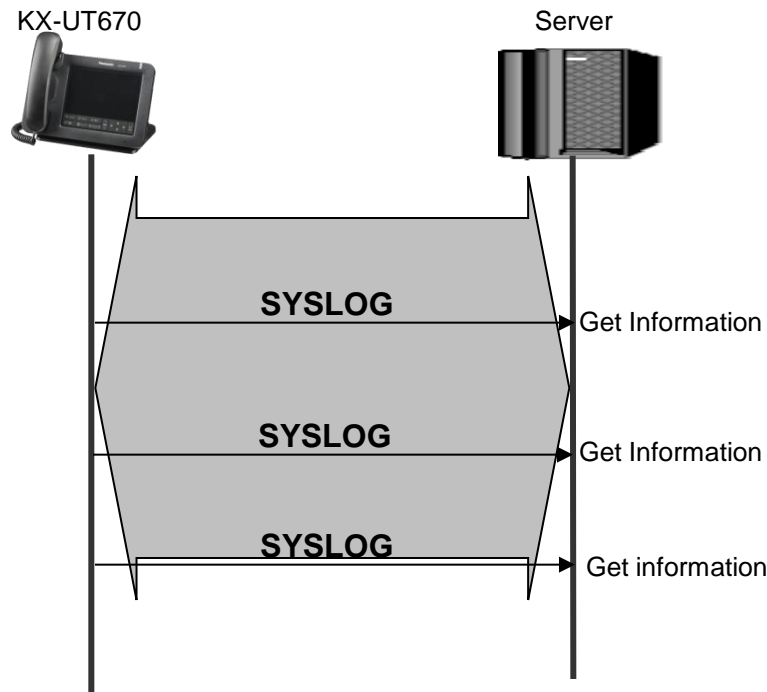
# Outline

- 1) Explanation about overview of SYSLOG. Format
- 2) Explanation about type and priority of configuration files
- 3) Configuration of SYLOG.

# About SYSLOG

KX-UT670 is supporting SYSLOG and SYSLOG is standard for logging messages.

We can provide several type of information by SYSLOG.



## Information Class sent thru SYSLOG

- SIP Message information
- File Download information
- VoIP information

## 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 -Information Class (Type)	-Time Stamp -Host Information	-Detailed message based on the type

## SYSLOG Packet information class with priority

Information	Class	Priority	Description
SIP Message	SIP	Error (3)	Success / Failure REGISTER
		information(6)	All SIP message sent / received
File Download	FDL	warning(4)	Failure of downloading Configuration file or Firmware
		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 message for each Class (SIP)

## Message information

Priority	Generate Timing	Message Format
Error	Generated when status is changed before and after REGISTER.	[SIP][Line-n:Phone Number]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 message full>

## 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
```

# Detailed of each SYSLOG format (VoIP)

## Message information

Priority	Generate Timing	Message Format
Information	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 KX-UT670 sent.
- Count of received RTP packets  
Total of RTP data packets that KX-UT670 received.
- Count of discarded RTP packets  
Total of RTP data packets that KX-UT670 discarded.  
KX-UT670 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
```



# How to set SYSLOG

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.

Example:

```
## SYSLOG Settings
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\_ADDR

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

### SYSLOG\_PORT

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