

Hints about a configuration file correction
and
Configuration sample of codec settings
(TGP series)

No.03-004

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Ver.1.0

Panasonic Corporation

1.Abstract about this document

This document describe hints when you make a configuraiton file.

2.Revision history

Date	Version	Revision	Firmware version
Mar. 3, 2011	Ver. 1.0	Initial Release	12.10/22.10

3. Restriction around Configuration File Specifications

*AG : Administrator Guide

[3.1. File Format]

- 3.1.1. The configuration file is in plain text format.
- 3.1.2. You must save ANSI format, when you make configuration file by Text editor.
- 3.1.3. The total size of the configuration files must be 32,768 bytes or less.
(Refer to [4. Hints about a configuration file correction](#))

[3.2. Line Format]

- 3.2.1. Configuration files must start with a comment line containing the following designated character sequence(28 bytes):
PCC Standard Format File #
(Refer to [4. Hints about a configuration file correction](#))
- 3.2.2. Each line must end with "<CR><LF>".
- 3.2.3. Configuration files must end with an empty line.
- 3.2.4. The maximum length of a line is 537 bytes including "<CR><LF>".
- 3.2.5. The following lines are ignored:
 - Lines that exceed the limit of 537 bytes
 - Empty lines
 - Comment lines that start with "#"
- 3.2.6. Each parameter line is written in the form of XXX="yyy" (XXX: parameter name, yyy: parameter value).
- 3.2.7. The value must be enclosed by double quotation marks.
- 3.2.8. A parameter line written over multiple lines is not allowed
- 3.2.9. Comment lines must begin with "#".

[3.3. Parameters]

- 3.3.1. There is the parameter that you must set each line.
Example:
"VM_NUMBER_1": for line 1,
"VM_NUMBER_2": for line 2, ...,
"VM_NUMBER_8": for line 8
- 3.3.2. The maximum length of a parameter name is 32 characters
- 3.3.3. The maximum length of a parameter value is 500 characters excluding double quotation marks
- 3.3.4. No space characters are allowed in the line except when the value includes a space character(s).
Example:
DISPLAY_NAME_1="John Smith" (valid)
DISPLAY_NAME_1 = "John Smith" (invalid)
- 3.3.5. Some parameter values can be specified as "empty" to set the parameter values to empty.
Example:
NTP_ADDR=""
- 3.3.6. If the same parameter is specified in a configuration file more than once, the value specified first is applied.
- 3.3.7. Each parameter value is categorized into Integer, Boolean, or String. Some parameters require a composite form such as Comma-separated Integer or "Comma-separated String". (Refer to *AG chapter 4.3-4.7)
- 3.3.8. Each parameter value must be set to the value defined by "Value Range" (Refer to *AG chapter 4.3-4.7)

[3.4. Consistency]

- 3.4.1. There are parameters which you cannot set at the same time.
Example1:
SYNCHRONIZATION_ENABLE_1="Y"
SHARED_CALL_ENABLE_1="Y"
when you set it at the same time, configuration file cannot be applied.
(Refer to [4. Hints about a configuration file correction](#))
Example2:
SDP_CODEC0_1="G722"
SDP_CODEC1_1="PCMA"
SDP_CODEC2_1="G726-32"
SDP_CODEC3_1="G722"
SDP_CODEC4_1="PCMU"
The same codec cannot be specified. When you set it , configuration file cannot be applied.
(Refer to [5. Configuration sample of codec settings](#))
- 3.4.2. There are parameters which you need to set at the same time.
Example:
when you change the codec priority, it is necessary to change
"SDP_CODEC", "SDP_CK RTE", "SDP_PARAM" and "SDP_PTYPE" at the same time.
(Refer to [5. Configuration sample of codec settings.](#))

4. Hints about a configuration file correction

The maximum size of a configuration file is 32,768 bytes



PCC Standard Format File # DO NOT CHANGE THIS LINE!



Configuration files must start with a comment line containing the following designated character sequence (28 bytes):
PCC Standard Format File

```
#####
# This is a sample configuration file. #
# Most of the parameters below are just default values... #
#####
#####
# System Settings #
#####

## Login Account Settings
ADMIN_ID="Jones"
ADMIN_PASS="HCeDUg4GqqDF9Jpl"
USER_ID="Smith"
USER_PASS="lhQ8B5hqoHgOlaAu"

## System Time Settings
TIME_ZONE="-300"
DST_ENABLE="Y"
DST_OFFSET="60"
DST_START_MONTH="3"
DST_START_ORDINAL_DAY="2"
DST_START_DAY_OF_WEEK="0"
DST_START_TIME="120"
DST_STOP_MONTH="11"
DST_STOP_ORDINAL_DAY="1"
DST_STOP_DAY_OF_WEEK="0"
DST_STOP_TIME="120"

## Syslog Settings
SYSLOG_EVENT_SIP="0"
SYSLOG_EVENT_CFG="0"
SYSLOG_EVENT_VOIP="0"
SYSLOG_EVENT_TEL="0"
SYSLOG_ADDR="logserver.example.com"
SYSLOG_PORT="514"
SYSLOG_RTPSMLY_INTVL_1="20"

## Firmware Update Settings
FIRM_UPGRADE_ENABLE="Y"
# FIRM_VER_EUDECT # not needed for US-DECT phone
FIRM_VER_USDECT="01.01"
FIRM_UPGRADE_AUTO="Y"
FIRM_FILE_PATH="http://firmserver.example.com/{MODEL}.fw"

## Provisioning Settings
OPTION66_ENABLE="Y"
OPTION66_REBOOT="N"
PROVISION_ENABLE="Y"
CFG_STANDARD_FILE_PATH="http://provisioning.example.com/Config{mac}.cfg"
CFG_PRODUCT_FILE_PATH=""
CFG_MASTER_FILE_PATH="http://provisioning.example.com/ConfigCommon.cfg"
# CFG_FILE_KEY1="" # Not to overwrite factory default key
CFG_FILE_KEY2=""
CFG_FILE_KEY3=""
CFG_FILE_KEY_LENGTH="128"
CFG_CYCLIC="N"
CFG_CYCLIC_INTVL="10080"
CFG_RTRY_INTVL="30"
CFG_RESYNC_TIME=""
CFG_RESYNC_FROM_SIP="check-sync"
```

```
#####
# Network Settings #
#####
## IP Settings
CONNECTION_TYPE="1"
HOST_NAME="TGP550"
DHCP_DNS_ENABLE="N"
STATIC_IP_ADDRESS=""
STATIC_SUBNET=""
STATIC_GATEWAY=""
USER_DNS1_ADDR=""
USER_DNS2_ADDR=""

## DNS Settings
DNS_QRY_PRLL="Y"
DNS_PRIORITY="N"
DNS1_ADDR=""
DNS2_ADDR=""

## Ethernet Port Settings
VLAN_ENABLE="N"
VLAN_ID_IP_PHONE="2"
VLAN_PRI_IP_PHONE="7"
VLAN_ID_PC="1"
VLAN_PRI_PC="0"

## HTTP Settings
HTTPD_PORTOPEN_AUTO="N"
HTTP_VER="1"
HTTP_USER_AGENT="Panasonic_{MODEL}/{fwver} ({mac})"
HTTP_SSL_VERIFY="0"
CFG_ROOT_CERTIFICATE_PATH=""

## Time Adjust Settings
NTP_ADDR="ntp.example.com"
TIME_SYNC_INTVL="60"
TIME_QUERY_INTVL="43200"

## STUN Settings
STUN_SERV_ADDR="stun.example.com"
STUN_SERV_PORT="3478"
STUN_2NDSERV_ADDR=""
STUN_2NDSERV_PORT="3478"

## Miscellaneous Network Settings
NW_SETTING_ENABLE="Y"
CUSTOM_WEB_PAGE="0"
```

```
#####
# Telephone Settings #
#####
```

Multi Number Settings

```
INCOMING_CALL_GROUP_1="1,1,1,1,1,1"
OUTGOING_CALL_LINE_HS1="1,1,1,1,1,1,1"
OUTGOING_CALL_LINE_HS2="1,1,1,1,1,1,1"
OUTGOING_CALL_LINE_HS3="1,1,1,1,1,1,1"
OUTGOING_CALL_LINE_HS4="1,1,1,1,1,1,1"
OUTGOING_CALL_LINE_HS5="1,1,1,1,1,1,1"
OUTGOING_CALL_LINE_HS6="1,1,1,1,1,1,1"
OUTGOING_CALL_LINE_BS="1,1,1,1,1,1,1"
DEFAULT_LINE_SELECT_HS1="1,0,0,0,0,0,0"
DEFAULT_LINE_SELECT_HS2="1,0,0,0,0,0,0"
DEFAULT_LINE_SELECT_HS3="1,0,0,0,0,0,0"
DEFAULT_LINE_SELECT_HS4="1,0,0,0,0,0,0"
DEFAULT_LINE_SELECT_HS5="1,0,0,0,0,0,0"
DEFAULT_LINE_SELECT_HS6="1,0,0,0,0,0,0"
DEFAULT_LINE_SELECT_BS="1,0,0,0,0,0,0"
```

Specifies the handsets (1–6) and the base unit (KX-TGP550 only) that calls will arrive at.

INCOMING_CALL_GROUP_[2-8] is set in each line

Specifies which lines (1–8) can be seized when going off-hook to make a call for the base unit

Specifies which lines (1–8) to seize automatically when going off-hook to make a call for each handset and the base unit.

```
OUTBANDDTMF_1="Y"
OUTBANDDTMF_VOL="-5"
TELEVENT_PTYPE_1="101"
RFC2543_HOLD_ENABLE_1="Y"
```

#####

Line Settings

#####

Call Control Settings

VM_NUMBER_1=""

DIAL_PLAN_1="<:0111>[2-9]xxxxxxxxxS0|<:011>1[2-9]xxxxxxxxxS0'

DIAL_PLAN_NOT_MATCH_ENABLE_1="N"

SHARED_CALL_ENABLE_1="Y"

SHARED_USER_ID_1="1234567890a"

SYNCHRONIZATION_ENABLE_1="N"

PRIVACY_MODE_1="Y"

← You cannot set both "SHARED_CALL_ENABLE_[1-8]" and "SYNCHRONIZATION_ENABLE_[1-8]" to "Y" at the same time.

SIP Settings

SIP_USER_AGENT="Panasonic_{MODEL}/{fwver} ({mac})"

SIP_AUTHID_1="SIP1234567890"

SIP_PASS_1="APDs8S2ja0afAMO72"

SIP_SRC_PORT_1="5060"

← The SIP port number for each line must be unique..

SIP_PRXY_ADDR_1="proxy.example.com"

SIP_PRXY_PORT_1="5060"

SIP_RGSTR_ADDR_1="registrar.example.com"

SIP_RGSTR_PORT_1="5060"

SIP_SVCDOMAIN_1="example.com"

REG_EXPIRE_TIME_1="3600"

REG_INTERVAL_RATE_1="90"

SIP_SESSION_TIME_1="0"

TOS_SIP_1="0"

SIP_2NDPROXY_ADDR_1=""

SIP_2NDPROXY_PORT_1="5060"

SIP_2NDRGSTR_ADDR_1=""

SIP_2NDRGSTR_PORT_1="5060"

SIP_TIMER_T1_1="500"

SIP_TIMER_T2_1="4"

INVITE_RTXN_1="6"

OTHER_RTXN_1="10"

SIP_FOVR_NORSP_1="N"

SIP_FOVR_MAX_1="2"

SIP_DNSSRV_ENA_1="N"

SIP_UDP_SRV_PREFIX_1="_sip_udp."

SIP_TCP_SRV_PREFIX_1="_sip_tcp."

SIP_100REL_ENABLE_1="N"

SIP_18X_RTX_INTVL_1="0"

SIP_PRSNC_ADDR_1="presenceserver.example.com"

SIP_PRSNC_PORT_1="5060"

SIP_2NDPRSNC_ADDR_1=""

SIP_2NDPRSNC_PORT_1="5060"

USE_DEL_REG_OPEN_1="N"

USE_DEL_REG_CLOSE_1="N"

PORT_PUNCH_INTVL_1="0"

SIP_SUBS_EXPIRE_1="3600"

SUB_RTX_INTVL_1="10"

REG_RTX_INTVL_1="10"

SIP_P_PREFERRED_ID_1="N"

SIP_PRIVACY_1="N"

ADD_USER_PHONE_1="N"

SDP_USER_ID_1=""

SUB_INTERVAL_RATE_1="90"

SIP_OUTPROXY_ADDR_1=""

SIP_OUTPROXY_PORT_1="5060"

SIP_TRANSPORT_1="0"

SIP_ANM_DISPNAME_1="1"

SIP_ANM_USERNAME_1="0"

SIP_ANM_HOSTNAME_1="N"

SIP_DETECT_SSAF_1="N"

SIP_RCV_DET_HEADER_1="N"

SIP_CONTACT_ON_ACK_1="N"

PHONE_NUMBER_1="1234567890" ← Max. 24 characters (consisting of 0-9, *, and #)

LINE_ID_1=""

← When you use characters that are not allowed for "PHONE_NUMBER_[1-8]",

you must specify "PHONE_NUMBER_[1-8]" and then this setting.

INTERNATIONAL_ACCESS_CODE="" ← Max. 16 characters or 32 bytes

```
#-----#
# Settings for line 2 #
#-----#
```

```
#####
# System Settings #
#####
## Syslog Settings
SYSLOG_RTSPMLY_INTVL_2="20"
```

```
#####
# Telephone Settings #
#####
## Multi Number Settings
INCOMING_CALL_GROUP_2="1,1,1,1,1,1" ← Specifies the handsets (1–6) and the base unit (KX-TGP550 only)
that calls will arrive at.
```

```
#####
# VoIP Settings #
#####
## Codec Settings
SDP_CODEC0_2="G722"
SDP_CODEC1_2="PCMA"
SDP_CODEC2_2="G726-32"
SDP_CODEC3_2="G729A"
SDP_CODEC4_2="PCMU"
SDP_CK RTE0_2="8000"
SDP_CK RTE1_2="8000"
SDP_CK RTE2_2="8000"
SDP_CK RTE3_2="8000"
SDP_CK RTE4_2="8000"
SDP_PARAM0_2="0"
SDP_PARAM1_2="0"
SDP_PARAM2_2="0"
SDP_PARAM3_2="0"
SDP_PARAM4_2="0"
SDP_PTYPE0_2="9"
SDP_PTYPE1_2="8"
SDP_PTYPE2_2="2"
SDP_PTYPE3_2="18"
SDP_PTYPE4_2="0"
```

Refer to line_1 ## Codec Settings

```
## RTP Settings
TOS_RTP_2="0"
RTCP_INTVL_2="0"
MAX_DELAY_2="20"
MIN_DELAY_2="2"
NOM_DELAY_2="2"
```

```
## Miscellaneous VoIP Settings
OUTBANDDTMF_2="Y"
TELEVENT_PTYPE_2="101"
RFC2543_HOLD_ENABLE_2="Y"
```

```
#####
# Line Settings #
#####
## Call Control Settings
VM_NUMBER_2=""
DIAL_PLAN_2="<:0111>[2-9]xxxxxxxxS0|<:011>1[2-9]xxxxxxxxS0'
DIAL_PLAN_NOT_MATCH_ENABLE_2="N"
SHARED_CALL_ENABLE_2="Y"
SHARED_USER_ID_2="1234567891a"
SYNCHRONIZATION_ENABLE_2="N"
PRIVACY_MODE_2="Y"
```

```

## SIP Settings
SIP_AUTHID_2="SIP1234567891"
SIP_PASS_2="J8uajAHFK3AHFSAIa"
SIP_SRC_PORT_2="5070"
SIP_PRXY_ADDR_2="proxy.example.com"
SIP_PRXY_PORT_2="5060"
SIP_RGSTR_ADDR_2="registrar.example.com"
SIP_RGSTR_PORT_2="5060"
SIP_SVCDOMAIN_2="example.com"
REG_EXPIRE_TIME_2="3600"
REG_INTERVAL_RATE_2="90"
SIP_SESSION_TIME_2="0"
TOS_SIP_2="0"
SIP_2NDPROXY_ADDR_2=""
SIP_2NDPROXY_PORT_2="5060"
SIP_2NDRGSTR_ADDR_2=""
SIP_2NDRGSTR_PORT_2="5060"
SIP_TIMER_T1_2="500"
SIP_TIMER_T2_2="4"
INVITE_RTXN_2="6"
OTHER_RTXN_2="10"
SIP_FOVR_NORSP_2="N"
SIP_FOVR_MAX_2="2"
SIP_DNSSRV_ENA_2="N"
SIP_UDP_SRV_PREFIX_2="_sip._udp."
SIP_TCP_SRV_PREFIX_2="_sip._tcp."
SIP_100REL_ENABLE_2="N"
SIP_18X_RTX_INTVL_2="0"
SIP_PRSNC_ADDR_2="presenceserver.example.com"
SIP_PRSNC_PORT_2="5060"
SIP_2NDPRSNC_ADDR_2=""
SIP_2NDPRSNC_PORT_2="5060"
USE_DEL_REG_OPEN_2="N"
USE_DEL_REG_CLOSE_2="N"
PORT_PUNCH_INTVL_2="0"
SIP_SUBS_EXPIRE_2="3600"
SUB_RTX_INTVL_2="10"
REG_RTX_INTVL_2="10"
SIP_P_PREFERRED_ID_2="N"
SIP_PRIVACY_2="N"
ADD_USER_PHONE_2="N"
SDP_USER_ID_2="-"
SUB_INTERVAL_RATE_2="90"
SIP_OUTPROXY_ADDR_2=""
SIP_OUTPROXY_PORT_2="5060"
SIP_TRANSPORT_2="0"
SIP_ANM_DISPNAME_2="1"
SIP_ANM_USERNAME_2="0"
SIP_ANM_HOSTNAME_2="N"
SIP_DETECT_SSAF_2="N"
SIP_RCV_DET_HEADER_2="N"
PHONE_NUMBER_2="1234567891"
LINE_ID_2=""
DISPLAY_NAME_2="1234567891"

```

← The SIP port number for each line must be unique..

Refer to line1 ## SIP Settings

```

#-----#
# Settings for line 3 to 8 follows... #
#-----#

```

← Configuration files must end with an empty line.

5. Configuration sample of codec settings

Pattern_1 (0).PCMU, (1).PCMA, (2).G729A
Pattern_2 (0).PCMU, (1).PCMA, (2).G729A, (3).G726-32
Pattern_3 (0).PCMU, (1).PCMA, (2).G729A, (3).G726-32, (4).G722
Pattern_4 (0).G729A, (1).PCMU, (2).PCMA, (3).G726-32, (4).G722
Pattern_5 (0).G726-32, (1).G729A, (2).PCMA, (3).PCMU, (4).G722
Pattern_6 (0).PCMU, (1).G729A, (2).G726-32, (3).PCMA, (4).G722

Pattern_1

SDP_CODEC0_1="PCMU"
SDP_CODEC1_1="PCMA"
SDP_CODEC2_1="G729A"
SDP_CODEC3_1=""
SDP_CODEC4_1=""
SDP_CKRTE0_1="8000"
SDP_CKRTE1_1="8000"
SDP_CKRTE2_1="8000"
SDP_CKRTE3_1="0"
SDP_CKRTE4_1="0"
SDP_PARAM0_1="0"
SDP_PARAM1_1="0"
SDP_PARAM2_1="0"
SDP_PARAM3_1="0"
SDP_PARAM4_1="0"
SDP_PTYPE0_1="0"
SDP_PTYPE1_1="8"
SDP_PTYPE2_1="18"
SDP_PTYPE3_1="255"
SDP_PTYPE4_1="255"

Pattern_2

SDP_CODEC0_1="PCMU"
SDP_CODEC1_1="PCMA"
SDP_CODEC2_1="G729A"
SDP_CODEC3_1="G726-32"
SDP_CODEC4_1=""
SDP_CKRTE0_1="8000"
SDP_CKRTE1_1="8000"
SDP_CKRTE2_1="8000"
SDP_CKRTE3_1="8000"
SDP_CKRTE4_1="0"
SDP_PARAM0_1="0"
SDP_PARAM1_1="0"
SDP_PARAM2_1="0"
SDP_PARAM3_1="0"
SDP_PARAM4_1="0"
SDP_PTYPE0_1="0"
SDP_PTYPE1_1="8"
SDP_PTYPE2_1="18"
SDP_PTYPE3_1="2"
SDP_PTYPE4_1="255"

Pattern_3

SDP_CODEC0_1="PCMU"
SDP_CODEC1_1="PCMA"
SDP_CODEC2_1="G729A"
SDP_CODEC3_1="G726-32"
SDP_CODEC4_1="G722"
SDP_CKRTE0_1="8000"
SDP_CKRTE1_1="8000"
SDP_CKRTE2_1="8000"
SDP_CKRTE3_1="8000"
SDP_CKRTE4_1="8000"
SDP_PARAM0_1="0"
SDP_PARAM1_1="0"
SDP_PARAM2_1="0"
SDP_PARAM3_1="0"
SDP_PARAM4_1="0"
SDP_PTYPE0_1="0"
SDP_PTYPE1_1="8"
SDP_PTYPE2_1="18"
SDP_PTYPE3_1="2"
SDP_PTYPE4_1="9"

Pattern_4

SDP_CODEC0_1="G729A"
SDP_CODEC1_1="PCMU"
SDP_CODEC2_1="PCMA"
SDP_CODEC3_1="G726-32"
SDP_CODEC4_1="G722"
SDP_CKRTE0_1="8000"
SDP_CKRTE1_1="8000"
SDP_CKRTE2_1="8000"
SDP_CKRTE3_1="8000"
SDP_CKRTE4_1="8000"
SDP_PARAM0_1="0"
SDP_PARAM1_1="0"
SDP_PARAM2_1="0"
SDP_PARAM3_1="0"
SDP_PARAM4_1="0"
SDP_PTYPE0_1="18"
SDP_PTYPE1_1="0"
SDP_PTYPE2_1="8"
SDP_PTYPE3_1="2"
SDP_PTYPE4_1="9"

Pattern_5

SDP_CODEC0_1="G726-32"
SDP_CODEC1_1="G729A"
SDP_CODEC2_1="PCMA"
SDP_CODEC3_1="PCMU"
SDP_CODEC4_1="G722"
SDP_CKRTE0_1="8000"
SDP_CKRTE1_1="8000"
SDP_CKRTE2_1="8000"
SDP_CKRTE3_1="8000"
SDP_CKRTE4_1="8000"
SDP_PARAM0_1="0"
SDP_PARAM1_1="0"
SDP_PARAM2_1="0"
SDP_PARAM3_1="0"
SDP_PARAM4_1="0"
SDP_PTYPE0_1="2"
SDP_PTYPE1_1="18"
SDP_PTYPE2_1="8"
SDP_PTYPE3_1="0"
SDP_PTYPE4_1="9"

Pattern_6

SDP_CODEC0_1="PCMU"
SDP_CODEC1_1="G729A"
SDP_CODEC2_1="G726-32"
SDP_CODEC3_1="PCMA"
SDP_CODEC4_1="G722"
SDP_CKRTE0_1="8000"
SDP_CKRTE1_1="8000"
SDP_CKRTE2_1="8000"
SDP_CKRTE3_1="8000"
SDP_CKRTE4_1="8000"
SDP_PARAM0_1="0"
SDP_PARAM1_1="0"
SDP_PARAM2_1="0"
SDP_PARAM3_1="0"
SDP_PARAM4_1="0"
SDP_PTYPE0_1="0"
SDP_PTYPE1_1="18"
SDP_PTYPE2_1="2"
SDP_PTYPE3_1="8"
SDP_PTYPE4_1="9"