

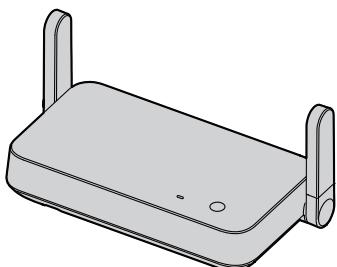
Panasonic[®]

Administrator Guide

Base Unit for SIP Cordless Phone

Model No.

KX-TGP700



Thank you for purchasing this Panasonic product.

Please read this manual carefully before using this product and save this manual for future use.

In this manual, the suffix of each model number is omitted unless necessary.

Introduction

Outline

This Administrator Guide provides detailed information on the configuration and management of this unit.

Audience

This Administrator Guide contains explanations about the installation, maintenance, and management of the unit and is aimed at network administrators and phone system dealers.

Technical descriptions are included in this guide. Prior knowledge of networking and VoIP (Voice over Internet Protocol) is required.

Related Documentation

Quick Start Guide

Briefly describes basic information about the installation of the unit.

Operating Instructions

Describes information about the installation and operation of the unit.

Manuals and supporting information are provided on the Panasonic Web site at:

<https://panasonic.net/cns/pcc/support/sipphone/>

Technical Support

When technical support is required, contact your phone system dealer/service provider.

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NOTES

- The screen shots shown in this guide are provided for reference only, and may differ from the screens displayed on your PC.

Table of Contents

| | |
|---------------------------------------------------------------------------------|-----------|
| 1 Initial Setup | 9 |
| 1.1 Setup | 10 |
| 1.1.1 Factory Defaults | 10 |
| 1.1.2 Language Selection for the Unit | 10 |
| 1.1.3 Basic Network Setup | 10 |
| 1.1.4 Overview of Programming | 14 |
| 1.1.5 Phone User Interface Programming | 14 |
| 1.1.5.1 Changing the Language for Phone User Interface Programming | 14 |
| 1.1.6 Web User Interface Programming | 14 |
| 1.1.6.1 Password for Web User Interface Programming | 15 |
| 1.1.6.2 Changing the Language for Web User Interface Programming | 16 |
| 1.1.6.3 Before Accessing the Web User Interface | 16 |
| 1.1.6.4 Accessing the Web User Interface | 18 |
| 1.2 Firmware Update | 22 |
| 1.2.1 Firmware Update | 22 |
| 2 General Information on Provisioning | 23 |
| 2.1 Pre-provisioning | 24 |
| 2.1.1 What is Pre-provisioning? | 24 |
| 2.1.2 How to Obtain a Pre-provisioning Server Address | 24 |
| 2.1.3 Server Address Formats | 24 |
| 2.1.4 Obtaining a Provisioning Server Address via SIP PnP | 25 |
| 2.1.5 Obtaining a Provisioning Server Address from DHCP Options | 26 |
| 2.2 Provisioning | 30 |
| 2.2.1 What is Provisioning? | 30 |
| 2.2.2 Protocols for Provisioning | 30 |
| 2.2.3 Configuration File | 30 |
| 2.2.4 Downloading Configuration Files | 32 |
| 2.2.5 Provisioning Server Setting Example | 38 |
| 2.2.6 Encryption | 39 |
| 2.3 Priority of Setting Methods | 40 |
| 2.4 Configuration File Specifications | 41 |
| 2.5 Configuration File Examples | 42 |
| 2.5.1 Examples of Codec Settings | 43 |
| 2.5.2 Example with Incorrect Descriptions | 43 |
| 3 Web User Interface Programming | 45 |
| 3.1 Web User Interface Setting List | 46 |
| 3.2 Status | 58 |
| 3.2.1 Version Information | 58 |
| 3.2.1.1 Base Unit | 59 |
| 3.2.1.2 Handset | 59 |
| 3.2.2 Handset Information | 60 |
| 3.2.2.1 Handset Information | 60 |
| 3.2.3 Network Status | 60 |
| 3.2.3.1 Network Common | 61 |
| 3.2.3.2 IPv4 | 61 |
| 3.2.3.3 IPv6 | 62 |
| 3.2.3.4 VLAN | 63 |
| 3.2.4 VoIP Status | 64 |
| 3.2.4.1 VoIP Status | 64 |
| 3.3 Network | 65 |

Table of Contents

| | | |
|------------|---------------------------------------------------------------------|-----------|
| 3.3.1 | Basic Network Settings | 65 |
| 3.3.1.1 | IP Addressing Mode | 66 |
| 3.3.1.2 | IPv4 | 66 |
| 3.3.1.3 | IPv6 | 68 |
| 3.3.2 | Ethernet Port Settings | 70 |
| 3.3.2.1 | Link Speed/Duplex Mode | 70 |
| 3.3.2.2 | LLDP | 71 |
| 3.3.2.3 | CDP | 71 |
| 3.3.2.4 | VLAN | 72 |
| 3.3.3 | HTTP Client Settings | 72 |
| 3.3.3.1 | HTTP Client | 73 |
| 3.3.3.2 | Proxy Server | 74 |
| 3.3.4 | STUN Settings | 74 |
| 3.3.4.1 | STUN | 75 |
| 3.3.5 | Multicast Paging Settings | 75 |
| 3.3.5.1 | Multicast Paging | 76 |
| 3.3.6 | LDAP Settings | 77 |
| 3.3.6.1 | LDAP | 77 |
| 3.3.6.2 | Server Common | 78 |
| 3.3.6.3 | Server 1 - Server 16 | 80 |
| 3.3.7 | Xtended Service Settings | 82 |
| 3.3.7.1 | Xtended Service | 82 |
| 3.3.7.2 | Xtended Service Settings [Line 1-16] | 83 |
| 3.3.8 | UC Settings | 86 |
| 3.3.8.1 | Presence Feature | 86 |
| 3.3.9 | XML Application Settings | 87 |
| 3.3.9.1 | XML Application | 88 |
| 3.3.9.2 | XML Phonebook | 89 |
| 3.3.10 | TWAMP Settings | 89 |
| 3.3.10.1 | TWAMP | 90 |
| 3.4 | System | 91 |
| 3.4.1 | System Settings | 91 |
| 3.4.1.1 | System | 91 |
| 3.4.2 | Language Settings | 92 |
| 3.4.2.1 | Selectable Language | 93 |
| 3.4.2.2 | Web Language | 95 |
| 3.4.3 | User Password Settings | 96 |
| 3.4.3.1 | User Password | 97 |
| 3.4.4 | Admin Password Settings | 97 |
| 3.4.4.1 | Admin Password | 98 |
| 3.4.5 | Time Adjust Settings | 98 |
| 3.4.5.1 | Synchronization | 99 |
| 3.4.5.2 | Time Zone | 99 |
| 3.4.5.3 | Daylight Saving Time (Summer Time) | 99 |
| 3.4.5.4 | Start Day and Time of DST (Start Day and Time of Summer Time) | 100 |
| 3.4.5.5 | End Day and Time of DST (End Day and Time of Summer Time) | 101 |
| 3.4.6 | Handset Basic Settings | 103 |
| 3.4.6.1 | Handset 1–16 | 103 |
| 3.4.7 | Handset Advanced Settings | 104 |
| 3.4.7.1 | Soft Key during IDLE Status -TPA60/65 | 104 |
| 3.4.7.2 | Soft Key during IDLE Status -TPA70/73 | 106 |
| 3.4.7.3 | Handset 1–16 | 107 |
| 3.4.8 | Parallel Mode Settings | 110 |
| 3.4.8.1 | Parallel Mode | 110 |
| 3.4.9 | Delete Handset | 110 |

| | | |
|------------|---------------------------------------------------------|------------|
| 3.4.9.1 | Delete Handset Registration | 111 |
| 3.5 | VoIP | 111 |
| 3.5.1 | SIP Settings | 111 |
| 3.5.1.1 | User Agent | 112 |
| 3.5.1.2 | NAT Identity | 112 |
| 3.5.1.3 | Advanced | 113 |
| 3.5.2 | SIP Settings [Line 1]–[Line 16] | 113 |
| 3.5.2.1 | Basic | 114 |
| 3.5.2.2 | Advanced | 116 |
| 3.5.3 | VoIP Settings | 121 |
| 3.5.3.1 | RTP | 121 |
| 3.5.3.2 | Voice Quality Report | 122 |
| 3.5.4 | VoIP Settings [Line 1]–[Line 16] | 124 |
| 3.5.4.1 | Basic | 124 |
| 3.5.4.2 | Advanced | 126 |
| 3.6 | Telephone | 128 |
| 3.6.1 | Multi Number Settings | 129 |
| 3.6.1.1 | Group Handset / Handset select for receiving call | 129 |
| 3.6.1.2 | Handset and Line Number select for making call | 130 |
| 3.6.2 | Call Control | 131 |
| 3.6.2.1 | Call Control | 131 |
| 3.6.2.2 | Emergency Call Phone Numbers | 134 |
| 3.6.3 | Call Control [Line 1]–[Line 16] | 134 |
| 3.6.3.1 | Call Features | 135 |
| 3.6.3.2 | Dial Plan | 139 |
| 3.6.3.3 | Call Rejection Phone Numbers | 139 |
| 3.6.4 | Hotline Settings | 139 |
| 3.6.4.1 | Hotline | 140 |
| 3.6.5 | Tone Settings | 140 |
| 3.6.5.1 | Dial Tone | 141 |
| 3.6.5.2 | Busy Tone | 142 |
| 3.6.5.3 | Ringing Tone | 142 |
| 3.6.5.4 | Stutter Tone | 143 |
| 3.6.5.5 | Reorder Tone | 144 |
| 3.6.6 | Import Phonebook | 144 |
| 3.6.6.1 | Import Phonebook | 145 |
| 3.6.7 | Export Phonebook | 146 |
| 3.6.7.1 | Export Phonebook | 146 |
| 3.6.8 | Flexible Key Settings for KX-TPA68 | 147 |
| 3.6.8.1 | Flexible Key Settings for KX-TPA68 (No.1–12) | 147 |
| 3.7 | Maintenance | 148 |
| 3.7.1 | Provisioning Maintenance | 148 |
| 3.7.1.1 | Provisioning Maintenance | 149 |
| 3.7.2 | Firmware Maintenance | 150 |
| 3.7.2.1 | Firmware Maintenance | 151 |
| 3.7.3 | Upgrade Firmware | 151 |
| 3.7.3.1 | Upgrade Firmware | 152 |
| 3.7.4 | Import Wallpaper | 152 |
| 3.7.4.1 | TPA60/65, UDT121,131 | 152 |
| 3.7.4.2 | TPA68 | 153 |
| 3.7.4.3 | TPA70/73 | 153 |
| 3.7.5 | Export Logging File | 154 |
| 3.7.5.1 | Export Logging File | 154 |
| 3.7.6 | Reset to Defaults | 154 |
| 3.7.7 | Restart | 155 |

Table of Contents

| | | |
|----------|------------------------------------------------------|------------|
| 3.7.7.1 | Restart | 155 |
| 3.7.7.2 | Restart (Graceful) | 155 |
| 3.7.8 | DECT Monitoring | 155 |
| 3.7.8.1 | Handset Status | 156 |
| 3.7.9 | Call Status Monitoring | 156 |
| 4 | Configuration File Programming | 159 |
| 4.1 | Configuration File Parameter List | 160 |
| 4.2 | General Information on the Configuration Files | 182 |
| 4.2.1 | Configuration File Parameters | 182 |
| 4.2.2 | Characters Available for String Values | 183 |
| 4.3 | System Settings | 184 |
| 4.4 | Handset Registration Settings | 197 |
| 4.5 | Basic Network Settings | 198 |
| 4.6 | Ethernet Port Settings | 204 |
| 4.7 | Pre-Provisioning Settings | 206 |
| 4.8 | Provisioning Settings | 207 |
| 4.9 | Firmware Update Settings | 214 |
| 4.10 | HTTP Settings | 215 |
| 4.11 | HTTPD/WEB Settings | 217 |
| 4.12 | TR-069 Settings | 219 |
| 4.13 | XML Settings | 224 |
| 4.14 | XSI Settings | 227 |
| 4.15 | XMPP (UC-ONE) Settings | 232 |
| 4.16 | LDAP Settings | 235 |
| 4.17 | SNMP Settings | 244 |
| 4.18 | Multicast Paging Settings | 246 |
| 4.19 | NTP Settings | 249 |
| 4.20 | Time Settings | 249 |
| 4.21 | Network Phonebook (Common) | 255 |
| 4.22 | Language Settings | 256 |
| 4.23 | NAT Settings | 259 |
| 4.24 | SIP Settings | 261 |
| 4.25 | SIP-TLS Settings | 289 |
| 4.26 | CODEC Settings | 292 |
| 4.27 | DTMF Settings | 294 |
| 4.28 | RTP/RTCP/RTCP-XR Settings | 295 |
| 4.29 | SRTP Settings | 298 |
| 4.30 | VQ Report by PUBLISH | 301 |
| 4.31 | uaCSTA Settings | 303 |
| 4.32 | Telephone Settings | 305 |
| 4.33 | Flexible Key Settings for KX-TPA68 | 322 |
| 4.34 | Tone Settings | 325 |
| 4.35 | Call Control Settings | 333 |
| 4.36 | Logging Settings | 358 |
| 4.37 | TWAMP Settings | 363 |
| 5 | Useful Telephone Functions | 365 |
| 5.1 | Line Settings | 366 |
| 5.1.1 | Multi Number Settings | 366 |
| 5.2 | Phonebook Import and Export | 369 |
| 5.2.1 | Import/Export Operation | 371 |
| 5.2.2 | Editing with Microsoft Excel | 372 |
| 5.2.3 | Exporting Data from Microsoft Outlook | 375 |
| 5.3 | Dial Plan | 375 |

| | | |
|------------|------------------------------------------------------------|------------|
| 5.3.1 | Dial Plan Settings | 375 |
| 5.4 | Broadsoft XSI (Xtended Services Interface) | 378 |
| 5.4.1 | Outline | 378 |
| 5.4.2 | XSI Service Settings | 379 |
| 5.5 | BroadCloud (Presence) | 380 |
| 5.5.1 | Outline | 380 |
| 5.5.2 | BroadCloud (Presence) Function Settings | 381 |
| 5.5.3 | Handset Operation of BroadCloud (Presence) Functions | 381 |
| 5.6 | Pairing (Parallel Mode) | 382 |
| 5.6.1 | Outline | 382 |
| 5.6.2 | Pairing (Parallel Mode) Settings | 383 |
| 5.7 | Flexible Key Setting for KX-TPA68 | 386 |
| 6 | Firmware Update | 389 |
| 6.1 | Firmware Server Setup | 390 |
| 6.2 | Firmware Update Settings | 390 |
| 6.3 | Executing Firmware Update | 391 |
| 6.4 | Upgrade Firmware | 392 |
| 7 | Troubleshooting | 393 |
| 7.1 | Troubleshooting | 394 |

Table of Contents

Section 1

Initial Setup

This section provides an overview of the setup procedures for the unit.

1.1 Setup

1.1.1 Factory Defaults

Many of the settings for this unit have been configured before the unit ships.

Where possible, these settings are configured with the optimum or most common values for the setting. For example, the port number of the SIP (Session Initiation Protocol) server is set to "5060".

However, many of the settings, such as the address of the SIP server or the phone number, have not been pre-configured, and they must be modified depending on the usage environment. If the port number of the SIP server is not "5060", the value of this setting must be changed.

This unit thus will not function properly using only the factory default settings. The settings for each feature must be configured according to the environment in which the unit is used.

Note

- If you are using a PoE hub, the number of devices that you can connect simultaneously is limited by the amount of power supplied by the hub.

1.1.2 Language Selection for the Unit

You can change the language used on the LCD.

In addition, various settings can be configured by accessing the Web user interface from a PC on the same network (→ see **3 Web User Interface Programming**). You can select the language for the Web user interface.

Note

- To select the display language for the unit, refer to the Operating Instructions on the Panasonic Web site (→ see **Introduction**).
- To select the display language for the Web user interface, see **3.4.2 Language Settings**.

1.1.3 Basic Network Setup

This section describes the basic network settings that you must configure before you can use the unit on your network.

You must configure the following network settings:

- IP Address Mode (IPv4 or IPv6 or IPv4/IPv6 Dual) settings
- TCP/IP settings (DHCP / RA for IPv6 / static IP)
- DNS server settings

For details about basic network settings via the Web user interface, see **3.3.1 Basic Network Settings**.

TCP/IP Settings for IPv4 (DHCP or Static IP Address Assignment)

A unique IP address must be assigned to the unit so that it can communicate on the network. How you assign an IP address depends on your network environment. This unit supports the following 2 methods for assigning an IP address:

Obtaining an IP Address Automatically from a DHCP Server

You can configure the unit to automatically obtain its IP address when it starts up from a DHCP server running on your network. With this method, the system can efficiently manage a limited number of IP addresses. Note that the IP address assigned to the unit may vary every time the unit is started up.

For details about the DHCP server, consult your network administrator.

Using a Static IP Address Specified by Your Network Administrator

If IP addresses for network devices are specified individually by your network administrator, you will need to manually configure settings such as the IP address, subnet mask, default gateway, and DNS servers. For details about the required network settings, consult your network administrator.

TCP/IP Settings for IPv6 (DHCP, RA or Static IP Address Assignment)

A unique IP address must be assigned to the unit so that it can communicate on the network. How you assign an IP address depends on your network environment. This unit supports the following 3 methods for assigning an IP address:

Obtaining an IP Address Automatically from a DHCP Server

You can configure the unit to automatically obtain its IP address when it starts up from a DHCP server running on your network. With this method, the system can efficiently manage a limited number of IP addresses. Note that the IP address assigned to the unit may vary every time the unit is started up. For details about the DHCP server, consult your network administrator.

Using a Static IP Address Specified by Your Network Administrator

If IP addresses for network devices are specified individually by your network administrator, you will need to manually configure settings such as the IP address, Prefix, default gateway, and DNS servers. For details about the required network settings, consult your network administrator.

Using a RA (Router Advertisement)

An IPv6 address can be assigned using Stateless Autoconfiguration. This enables the setting of addresses for only the router and the node without the need to manage information. For details about the required network settings, consult your network administrator.

DNS Server Settings

You can configure the unit to use 2 DNS servers: a primary DNS server is DNS1 and a secondary DNS server is DNS2. The primary DNS1 server receives priority over the secondary DNS2 server. If the primary DNS1 server returns no reply, the secondary DNS2 server will be used.

For details about configuring the DNS server settings using the unit, or using the Web user interface, see **Configuring the Network Settings of the Unit** in this section.

DNS Priority Using Configuration File

The setting for DNS server(s) may be configured using the configuration files by your phone system dealer/service provider (→ see "DHCP_DNS_ENABLE", "DHCP_DNS_ENABLE_IPV6", "USER_DNS1_ADDR"/"USER_DNS2_ADDR" (for IPv4) and "USER_DNS1_ADDR_IPV6"/"USER_DNS2_ADDR_IPV6" (for IPv6) in **4.5 Basic Network Settings**).

- When "DHCP_DNS_ENABLE" (for IPv4) is set to "Y", you can manually configure the DNS server address by using "USER_DNS1_ADDR" or ("USER_DNS1_ADDR" and "USER_DNS2_ADDR"). When set to "N", the DNS server address will be automatically transmitted. This setting is available only when ("IP_ADDR_MODE"="0" or "IP_ADDR_MODE"="2") and "CONNECTION_TYPE"="1".
- When "DHCP_DNS_ENABLE_IPV6" (for IPv6) is set to "Y", you can manually configure the DNS server address by using "USER_DNS1_ADDR_IPV6" or ("USER_DNS1_ADDR_IPV6" and "USER_DNS2_ADDR_IPV6"). When set to "N", the DNS server address will be automatically transmitted. This setting is available only when ("IP_ADDR_MODE"="1" or "IP_ADDR_MODE"="2") and "CONNECTION_TYPE_IPV6"="1".

Configuring the Network Settings of the Unit

The following procedures explain how to change the network settings via the unit.

For details about the individual network settings that can be configured via the unit, refer to the Operating Instructions on the Panasonic Web site (→ see **Introduction**).

1.1.3 Basic Network Setup

For details about configuring network settings via the Web user interface, see [3.3.1 Basic Network Settings](#).

To configure IP Mode (IPv4, IPv6, IPv4&IPv6)

KX-TPA70/KX-TPA73

[In standby mode]

1. /[CENTER]
2. [Δ]/[∇]: "System Settings" \rightarrow /[CENTER]
3. [Δ]/[∇]: "Network Settings" \rightarrow /[CENTER]
4. [Δ]/[∇]: "IP Mode Select"^{"1} \rightarrow /[CENTER]
5. [\triangleright]/[\triangleleft]: "<IPv4>"/"<IPv6>"/"<IPv4&IPv6>" \rightarrow /[CENTER]
 - The initial value is "IPv4".

Configuring the Network Settings Using IPv4

To configure network settings automatically

KX-TPA70/KX-TPA73

[In standby mode]

1. /[CENTER]
2. [Δ]/[∇]: "System Settings" \rightarrow /[CENTER]
3. [Δ]/[∇]: "Network Settings" \rightarrow /[CENTER]
4. [Δ]/[∇]: "IPv4 Settings" \rightarrow /[CENTER]
5. [Δ]/[∇]: "Connection Mode"^{"1} \rightarrow /[CENTER]
6. [\triangleright]/[\triangleleft]: "Connection Mode <DHCP>" \rightarrow /[CENTER]
7. 

To configure network settings manually

KX-TPA70/KX-TPA73

[In standby mode]

1. /[CENTER]
2. [Δ]/[∇]: "System Settings" \rightarrow /[CENTER]
3. [Δ]/[∇]: "Network Settings" \rightarrow /[CENTER]
4. [Δ]/[∇]: "IPv4 Settings" \rightarrow /[CENTER]
5. [Δ]/[∇]: "Connection Mode"^{"1} \rightarrow /[CENTER]
6. [\triangleright]/[\triangleleft]: "Connection Mode <Static>" \rightarrow /[CENTER]
7. Enter the IP address, subnet mask, default gateway, DNS1 (primary DNS server), and, if necessary, DNS2 (secondary DNS server), and then press .
8. 

Configuring the Network Settings Using IPv6

To configure network settings automatically using DHCP

KX-TPA70/KX-TPA73

[In standby mode]

1. /[CENTER]
2. [Δ]/[∇]: "System Settings" → /[CENTER]
3. [Δ]/[∇]: "Network Settings" → /[CENTER]
4. [Δ]/[∇]: "IPv6 Settings" → /[CENTER]
5. [Δ]/[∇]: "Connection Mode"^{"1} → /[CENTER]
6. [\triangleright]/[\triangleleft]: "Connection Mode <DHCP>" → /[CENTER]
7. 

To configure network settings automatically using RA

KX-TPA70/KX-TPA73

[In standby mode]

1. /[CENTER]
2. [Δ]/[∇]: "System Settings" → /[CENTER]
3. [Δ]/[∇]: "Network Settings" → /[CENTER]
4. [Δ]/[∇]: "IPv6 Settings" → /[CENTER]
5. [Δ]/[∇]: "Connection Mode"^{"1} → /[CENTER]
6. [\triangleright]/[\triangleleft]: "Connection Mode <RA>" → /[CENTER]
7. Enter the addresses for DNS1 (primary DNS server) and, if necessary, DNS2 (secondary DNS server) manually, and then press .
8. 

To configure network settings manually

KX-TPA70/KX-TPA73

[In standby mode]

1. /[CENTER]
2. [Δ]/[∇]: "System Settings" → /[CENTER]
3. [Δ]/[∇]: "Network Settings" → /[CENTER]
4. [Δ]/[∇]: "IPv6 Settings" → /[CENTER]
5. [Δ]/[∇]: "Connection Mode"^{"1} → /[CENTER]
6. [\triangleright]/[\triangleleft]: "Connection Mode <Static>" → /[CENTER]
7. Enter the IP address, Prefix (for IPv6), Default Gateway, DNS1 (primary DNS server), and, if necessary, DNS2 (secondary DNS server), and then press .

1.1.4 Overview of Programming

8.

*1 The current setting is displayed below.

Note

- If your phone system dealer/service provider does not allow you these settings, you cannot change them even though the unit shows the setting menu. Contact your phone system dealer/service provider for further information.
- If you select **DHCP** for the connection mode, all the settings concerning static connection will be ignored, even if they have been specified.
- If you select **DHCP** for the connection mode and **Auto** for DNS, the DNS server settings (DNS1 and DNS2) will be ignored, even if they have been specified.

1.1.4 Overview of Programming

There are 3 types of programming, as shown in the table below:

| Programming Type | Description | References |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Phone user interface programming | Configuring the unit's settings directly from the unit. | → 1.1.5 Phone User Interface Programming |
| Web user interface programming | Configuring the unit's settings by accessing the Web user interface from a PC connected to the same network. | → 1.1.6 Web User Interface Programming → 3 Web User Interface Programming |
| Configuration file programming | Configuring the unit's settings beforehand by creating configuration files (pre-provisioning), and having the unit download the files from a server on the Internet and configure its own settings (provisioning). | → 2 General Information on Provisioning → 4 Configuration File Programming |

1.1.5 Phone User Interface Programming

You can change the settings directly from the unit.

For details about the operations, refer to the Operating Instructions on the Panasonic Web site (→ see **Introduction**).

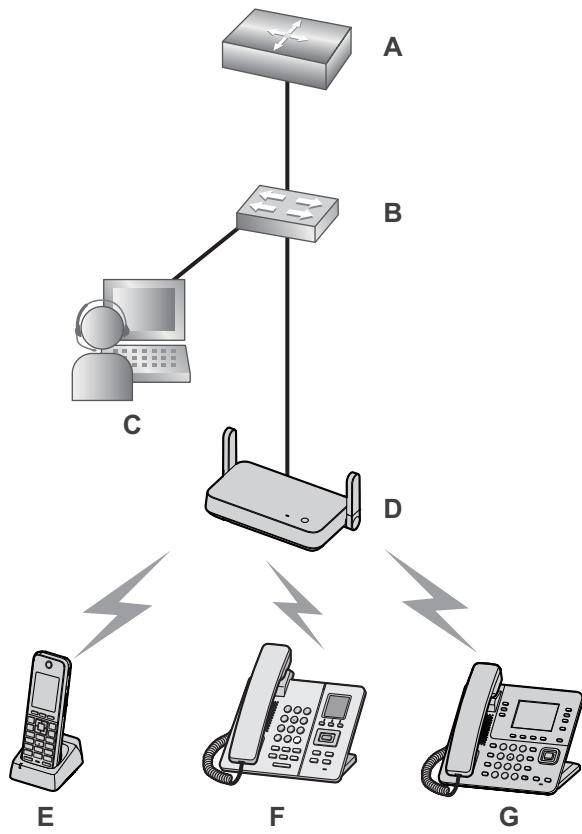
1.1.5.1 Changing the Language for Phone User Interface Programming

You can change the language used on the LCD. Because the language settings for the LCD of the unit are not synchronized, you must set the languages individually for the unit.

For details about changing the setting, refer to the Operating Instructions on the Panasonic Web site (→ see **Introduction**).

1.1.6 Web User Interface Programming

After connecting the unit to your network, you can configure the unit's settings by accessing the Web user interface from a PC connected to the same network. For details, see **3 Web User Interface Programming**.



- A. Router
- B. Switching Hub
- C. PC
- D. KX-TGP700
- E. KX-TPA60/KX-TPA70/KX-TPA73
- F. KX-TPA65
- G. KX-TPA68

1.1.6.1 Password for Web User Interface Programming

To program the unit via the Web user interface, a login account is required. There are 2 types of accounts, and each has different access privileges.

- **User:** User accounts are for use by end users. Users can change the settings that are specific to the unit.
- **Administrator:** Administrator accounts are for use by administrators to manage the system configuration. Administrators can change all the settings, including the network settings, in addition to the settings that can be changed from a User account.

A separate password is assigned to each account.

For details, see **Access Levels (IDs and Passwords)** in **1.1.6.3 Before Accessing the Web User Interface**.

Notice

- You should manage the passwords carefully, and change them regularly.

1.1.6.2 Changing the Language for Web User Interface Programming

When accessing the unit via the Web user interface on a PC connected to the same network, various menus and settings are displayed. You can change the language used for displaying these setting items. Because the language setting for the Web user interface is not synchronized with those of the unit, you must set the languages for each independently.

For details, see [3.4.2 Language Settings](#).

1.1.6.3 Before Accessing the Web User Interface

Recommended Environment

This unit supports the following specifications:

| | |
|------------------------------|------------------------------------------|
| HTTP Version | HTTP/1.0 (RFC 1945), HTTP/1.1 (RFC 2616) |
| Authentication Method | Digest |

The Web user interface will operate correctly in the following environments:

| | |
|-------------------------------|------------------------------------------------------------------------------------|
| Operating System | Microsoft® Windows® 8, or Windows 10 operating system |
| Web Browser | Windows Internet Explorer 11 web browser, Microsoft Edge, Firefox, Google™ Chrome™ |
| Language (recommended) | English |

Opening/Closing the Web Port

To access the Web user interface, you must open the unit's Web port beforehand. For details, refer to the Operating Instructions on the Panasonic Web site (→ see [Introduction](#)).

Configuring Settings from the Unit

To open the unit's Web port

KX-TPA70/KX-TPA73

[In standby mode]

1. /[CENTER]
 2. [Δ]/[∇]: "Phone Settings" → /[CENTER]
 3. [Δ]/[∇]: "Other Option" → /[CENTER]
 4. [Δ]/[∇]: "Embedded Web" → /[CENTER]
- The check mark is displayed in the check box when "Embedded Web" is on.

To close the unit's Web port

KX-TPA70/KX-TPA73

[In standby mode]

1. /[CENTER]
 2. [Δ]/[∇]: "Phone Settings" → /[CENTER]
 3. [Δ]/[∇]: "Other Option" → /[CENTER]
 4. [Δ]/[∇]: "Embedded Web" → /[CENTER]
- The check mark is not displayed in the check box when "Embedded Web" is off.

Configuring Settings from the Web User Interface

To close the unit's Web port

1. In the Web user interface, click [**Web Port Close**].
2. Click **OK**.

Note

- The Web port of the unit will be closed automatically in the following conditions:
 - 3 consecutive unsuccessful login attempts occur.
- The Web port can be set to stay open continuously, through Configuration file programming (→ see "**HTTPD_PORTOPEN_AUTO**" in **4.11 HTTPD/WEB Settings**). However, please recognize the possibility of unauthorized access to the unit by doing so.

Access Levels (IDs and Passwords)

2 accounts with different access privileges are provided for accessing the Web user interface: User and Administrator. Each account has its own ID and password, which are required to log in to the Web user interface.

| Account | Target User | ID (default) | Password (default) | Password Restrictions |
|---------------|------------------------------|-----------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| User | End users | user | -blank-(NULL) | <ul style="list-style-type: none"> • When logged in as User, you can change the password for the User account (→ see 3.4.3 User Password Settings). • The password can consist of 6 to 64 ASCII characters (case-sensitive) (→ see Entering Characters in 1.1.6.4 Accessing the Web User Interface). |
| Administrator | Network administrators, etc. | admin | adminpass | <ul style="list-style-type: none"> • When logged in as Administrator, you can change the password for both the User and Administrator accounts (→ see 3.4.4 Admin Password Settings). • The password can consist of 6 to 64 ASCII characters (case-sensitive) (→ see Entering Characters in 1.1.6.4 Accessing the Web User Interface). |

Notice

- Only one account can be logged in to the Web user interface at a time. If you try to access the Web user interface while someone is logged in, you will be denied access.
- You cannot log in to the Web user interface even under the same account as someone who is already logged in.
- The user password is required to change the settings.
- The IDs can be changed through configuration file programming (→ see "**ADMIN_ID**" and "**USER_ID**" in **4.11 HTTPD/WEB Settings**).
- If you forget your account IDs or passwords, consult your phone system dealer/service provider.

1.1.6.4 Accessing the Web User Interface

The unit can be configured from the Web user interface.

To access the Web user interface

1. Open your Web browser, and then enter "http://" followed by the unit's IP address into the address field of your browser.
 - a. When the IP address is 192.168.0.1 (IPv4), access the following URL.
http://192.168.0.1/
 - b. When the IP address is 2001:db8:1f70::999:de8:7648:6e8 (IPv6), access the following URL. With IPv6, the IP address is enclosed in square brackets ("[" and "]").
http://[2001:db8:1f70::999:de8:7648:6e8]/

Note

- To determine the unit's IP address, perform the following operations on the unit:
KX-TPA70/KX-TPA73
[In standby mode]

1. /[CENTER]
2. [/]: "Status" → /[CENTER]
3. [/]: "Base Unit" → /[CENTER]
4. [/]: Check the IP address.

2. For authentication, enter your ID (username) and password, and then click **OK**.

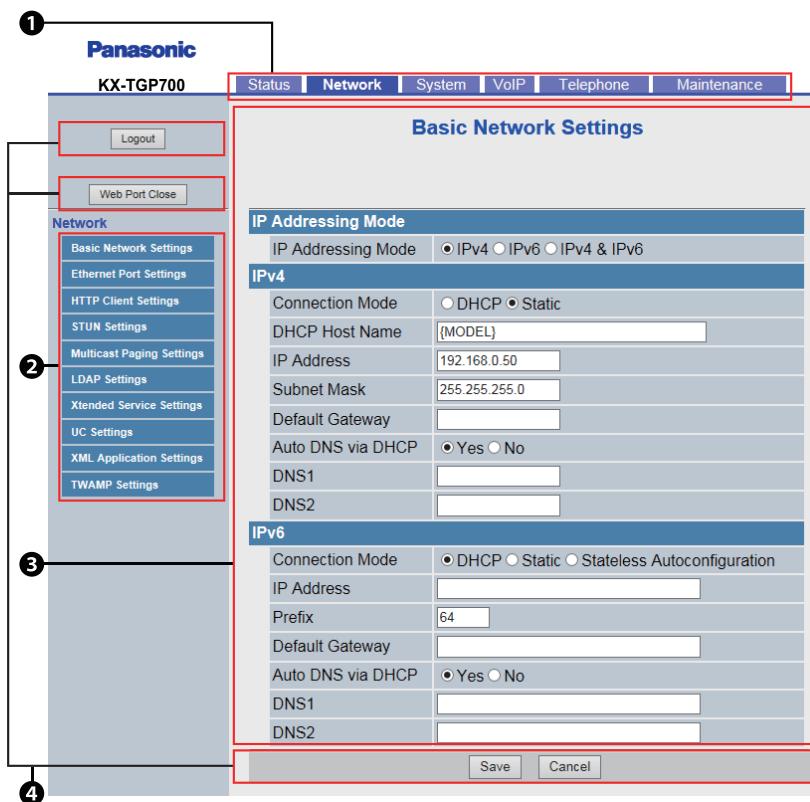
Notice

- The default ID for the User account is "user", and the default password is blank. The ID cannot be changed from the Web user interface, but it can be changed through configuration file programming.
- When you log in as User to the Web user interface for the first time, the **[User Password Settings]** screen (→ see **3.4.3 User Password Settings**) will be displayed. Enter a new password, and then perform authentication again with the new password to log in to the Web user interface.
- The default ID for the Administrator account is "admin", and the default password is "adminpass". The ID cannot be changed from the Web user interface, but it can be changed through configuration file programming.

3. The Web user interface window is displayed. Configure the settings for the unit as desired.
4. You can log out from the Web user interface at any time by clicking **[Web Port Close]**.

Controls on the Window

The Web user interface window contains various controls for navigating and configuring settings. The following figure shows the controls that are displayed on the **[Basic Network Settings]** screen as an example:



Note

- Actual default values may vary depending on your phone system dealer/service provider.
- When you log in to the Web user interface with the User account, the languages of messages displayed on the configuration screen may differ depending on the country/area of use.

① Tabs

Tabs are the top categories for classifying settings. When you click a tab, the corresponding menu items and the configuration screen of the first menu item appear. There are 6 tabs for the Administrator account and 3 tabs for the User account. For details about the account types, see **Access Levels (IDs and Passwords)** in this section.

② Menu

The menu displays the sub-categories of the selected tab.

③ Configuration Screen

Clicking a menu displays the corresponding configuration screen, which contains the actual settings, grouped into sections. For details, see **3.2 Status to 3.7.7 Restart**.

④ Buttons

The following standard buttons are displayed in the Web user interface:

| Button | Function |
|----------------|-----------------------------------------------------------------------------------------------------------------------|
| Logout | Logs out of the Web user interface. |
| Web Port Close | Closes the Web port of the unit and logs you out of the Web user interface after a confirmation message is displayed. |
| Save | Applies changes and displays a result message (→ see Result Messages in this section). |

1.1.6 Web User Interface Programming

| Button | Function |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cancel | Discards changes. The settings on the current screen will return to the values they had before being changed. |
| Refresh | Updates the status information displayed on the screen. This button is displayed in the upper-right area of the [Network Status] and [VoIP Status] screens. |

Entering Characters

In the Web user interface, when specifying a name, message, password, or other text item, you can enter any of the ASCII characters displayed in the following table with a white background.

| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 20 | SP | ! | " | # | \$ | % | & | ' | (|) | * | + | , | - | . | / |
| 30 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | : | ; | < | = | > | ? |
| 40 | @ | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
| 50 | P | Q | R | S | T | U | V | W | X | Y | Z | [| \ |] | ^ | _ |
| 60 | ' | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o |
| 70 | p | q | r | s | t | u | v | w | x | y | z | { | | } | ~ | |

However, there are additional limitations for certain types of fields as follows:

- Number field
 - You may only enter a sequence of numeric characters.
- IP Address field
 - You can enter the IP address using dotted-decimal notation (i.e., "n.n.n.n" where n=0–255).
- FQDN field
 - You can enter the IP address using dotted-decimal notation (i.e., "n.n.n.n" where n=0–255).
 - With IPv6, the IP address is enclosed in square brackets ("[" and "]").
Example: [http://\[2001:db8:1f70::999:de8:7648:6e8\]/](http://[2001:db8:1f70::999:de8:7648:6e8]/)
- Display Name field (→ see **[Display Name]** in **3.6.3.1 Call Features**)
 - This is the only field in which you can enter Unicode characters.

Result Messages

When you click **[Save]** after changing the settings on the current configuration screen, one of the following messages will appear in the upper-left area of the current configuration screen:

| Result Message | Description | Applicable Screens |
|----------------|-------------------------------------------|-----------------------------------------------------|
| Complete | The operation has successfully completed. | All screens except 3.6.7 Export Phonebook |

| Result Message | Description | Applicable Screens |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Failed (Parameter Error) | <p>The operation failed because:</p> <ul style="list-style-type: none"> Some specified values are out of range or invalid. | All screens |
| Failed (Memory Access Failure) | <p>The operation failed because:</p> <ul style="list-style-type: none"> Access error to the flash memory occurred while reading or writing the data. | All screens |
| Failed (Transfer Failure) ¹ | <p>The operation failed because:</p> <ul style="list-style-type: none"> A network error occurred during the data transmission. | All screens |
| Failed (Busy) | <p>The operation failed because:</p> <ul style="list-style-type: none"> The unit is in an operation that accesses the flash memory of the unit. | All screens |
| | <ul style="list-style-type: none"> When attempting to import/export the phonebook data, the unit is on a call. While transferring the phonebook data, a call arrived at the unit. | 3.6.6 Import Phonebook 3.6.7 Export Phonebook |
| | <ul style="list-style-type: none"> When updating the firmware, the unit is on a call. | 3.7.3 Upgrade Firmware |
| Failed (Canceled) | <p>The operation failed because:</p> <ul style="list-style-type: none"> While transferring the phonebook data, the connection with the unit was interrupted. | 3.6.6 Import Phonebook 3.6.7 Export Phonebook |
| Failed (Invalid File) | <p>The operation failed because:</p> <ul style="list-style-type: none"> Analysis of the received data failed. | 3.6.6 Import Phonebook |
| | <ul style="list-style-type: none"> The firmware file is corrupted or invalid. | 3.7.3 Upgrade Firmware |
| Failed (File Size Error) | <p>The operation failed because:</p> <ul style="list-style-type: none"> The size of the imported phonebook is too large. | 3.6.6 Import Phonebook |
| | <ul style="list-style-type: none"> The size of the firmware file is insufficient. | 3.7.3 Upgrade Firmware |
| Failed (No Handset, or Busy) | <p>The operation failed because:</p> <ul style="list-style-type: none"> The specified Cordless Handset is not registered. (It cannot be found in an Cordless Handset search via Base Unit synchronization.) | 3.6.6 Import Phonebook |
| | <ul style="list-style-type: none"> The specified Cordless Handset cannot be connected to. | 3.6.6 Import Phonebook |

| Result Message | Description | Applicable Screens |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Failed (No Reception) | The operation failed because: <ul style="list-style-type: none"> The connection to the specified Cordless Handset suddenly cuts out (becomes out of range). | 3.6.6 Import Phonebook |
| Failed (Charge Battery) | The operation failed because: <ul style="list-style-type: none"> The battery needs to be charged. | 3.6.7 Export Phonebook |
| No Data | The operation failed because: <ul style="list-style-type: none"> The imported phonebook file contains no valid phonebook entries. | 3.6.6 Import Phonebook |
| | • No phonebook entry is registered in the export source the unit. | 3.6.7 Export Phonebook |

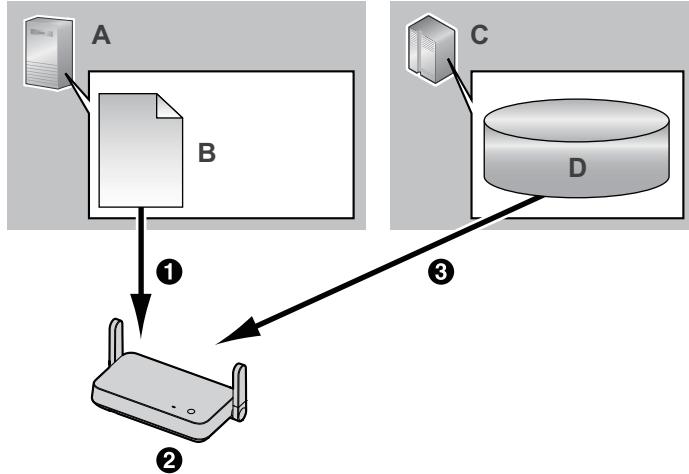
¹ "Failed (Transfer Failure)" may not be displayed depending on your Web browser.

1.2 Firmware Update

1.2.1 Firmware Update

You can update the unit's firmware to improve the unit's operation. You can configure the unit so that it automatically downloads the new firmware file from a specified location. The firmware update will be executed when the unit is restarted.

For details, see **6 Firmware Update**.



A. Provisioning server

B. Configuration file

C. Firmware server

D. Firmware

① Download

② Check for update

③ Firmware download and update

Section 2

General Information on Provisioning

This section provides an overview of the configuration file programming procedures for the unit, including pre-provisioning and provisioning.

2.1 Pre-provisioning

2.1.1 What is Pre-provisioning?

Pre-provisioning is an auto-provisioning mechanism that automatically obtains the server address saved in the configuration file administered by the carrier or distributor.

There are two methods for automatically obtaining the server address saved in the configuration file.

1. SIP PnP

The phone multicasts a SIP SUBSCRIBE message and obtains a provisioning server address via a SIP NOTIFY message.

2. DHCP options

The phone obtains a provisioning server address via the DHCP option information. DHCP options 66, 159 and 160 will be used when the phone's IP address mode is IPv4, and DHCP option 17 will be used when the phone's IP address mode is IPv6.

2.1.2 How to Obtain a Pre-provisioning Server Address

Upon startup, the phone will attempt to obtain a pre-provisioning server address as follows.

1. When the phone's IP address mode is IPv4

The phone will attempt to obtain a pre-provisioning server address using SIP PnP, but when it cannot, it will attempt to do so from DHCPv4 options.

2. When the phone's IP address mode is IPv6

The phone will attempt to obtain a pre-provisioning server address from DHCPv6 options.

3. When the phone's IP address mode is IPv4/v6 Dual

The phone will attempt to obtain a pre-provisioning server address using SIP PnP, but when it cannot, it will attempt to do so from DHCPv4 options. When this is not possible, it will attempt to do so from DHCPv6 options.

Note

- The SIP PnP function is enabled in the initial state. It can be enabled or disabled from the configuration parameter "SIPPNP_PROV_ENABLE".

2.1.3 Server Address Formats

1. Basic format

Format: <scheme>://<user>:<password>@<host>:<port>/<url-path>/<file name>

* The server name (<host>) may be the IP address or the domain.

* Maximum length: 384 characters

2. Macros used with file names

| Macro Format {XXXX} | Macro Expansion |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| {MAC} | If the URL contains {MAC}, it will be replaced with the device's MAC address in uppercase letters. Example: {MAC} → 0080F0C571EB |
| {mac} | If the URL contains {mac}, it will be replaced with the device's MAC address in lowercase letters. Example: {mac} → 0080f0C571eb |
| {MODEL} | If the URL contains {MODEL}, it will be replaced with the device's model name. Example: {MODEL} → KX-TGP700 |

| Macro Format {XXXX} | Macro Expansion |
|---------------------|-------------------------------------------------------------------------------------------------------------------|
| {fwver} | If the URL contains {fwver}, it will be replaced with the device's firmware version. Example: {fwver} → 01.000 |

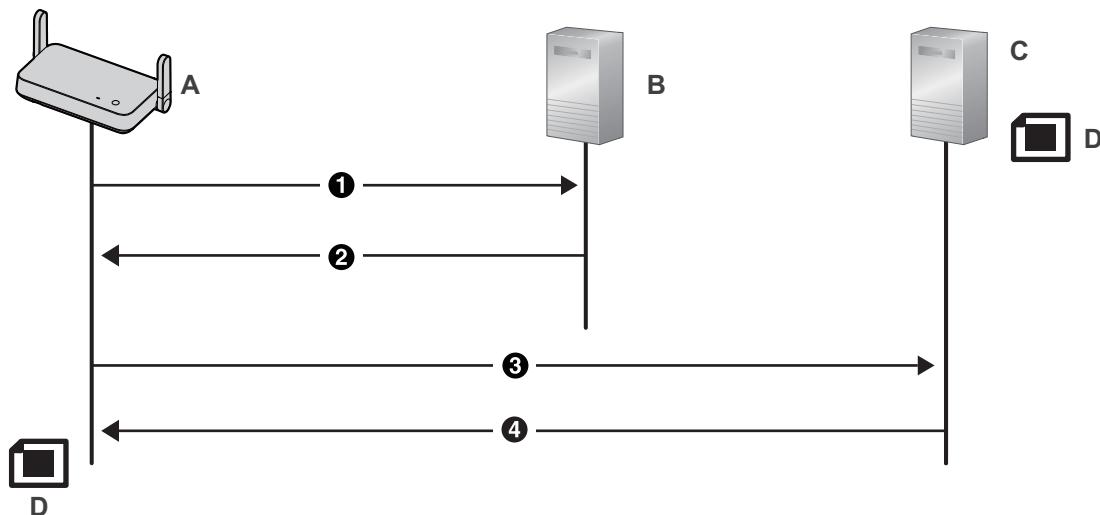
Note

- Macros distinguish between uppercase and lowercase letters.
- Macros not specified above will be treated as strings of characters.

2.1.4 Obtaining a Provisioning Server Address via SIP PnP

1. Basic Sequence

At startup, the phone will multicast a SIP SUBSCRIBE message for the ua-profile event, receive a SIP NOTIFY message from the PnP server and obtain a pre-provisioning server address. It will then obtain a provisioning server address from the pre-provisioning server.



A. KX-TGP700

B. PnP Server

C. Pre-provisioning Server

D.xxxxxxxxxxxx.cfg

① SUBSCRIBE (multicast)

② NOTIFY (unicast)
Body http://server/{MODEL}.cfg

③ HTTP GET {MODEL}.cfg

④ 200OK

Obtain provisioning server information

CFG_STANDARD_FILE_PATH

CFG_PRODUCT_FILE_PATH

CFG_MASTER_FILE_PATH

2.1.5 Obtaining a Provisioning Server Address from DHCP Options

2. Provisioning server URL formats

Format: <scheme>://<user>:<password>@<host>:<port>/<url-path>/<file name>

| | | |
|-------------|-----------|--------------------------------|
| <scheme> | Mandatory | Protocol (TFTP/FTP/HTTP/HTTPS) |
| <user> | Optional | User name |
| <password> | Optional | Password |
| <host> | Mandatory | IP Address or Domain |
| <port> | Optional | Port number |
| <url-path> | Optional | Full path of the resource |
| <file name> | Mandatory | File name |

1. Case 1: Protocol, server name and file name

http://10.0.0.1/{MODEL}.cfg

http://prov.com/{MODEL}.cfg

2. Case 2: Protocol, server name, path and file name

http://10.0.0.1/pana/{MODEL}.cfg

http://prov.com/pana/{MODEL}.cfg

3. Case 3 Protocol, user name, password, server name and file name

http://id:pass@10.0.0.1/{MAC}.cfg

http://id:pass@prov.com/{MAC}.cfg

2.1.5 Obtaining a Provisioning Server Address from DHCP Options

1. DHCPv4

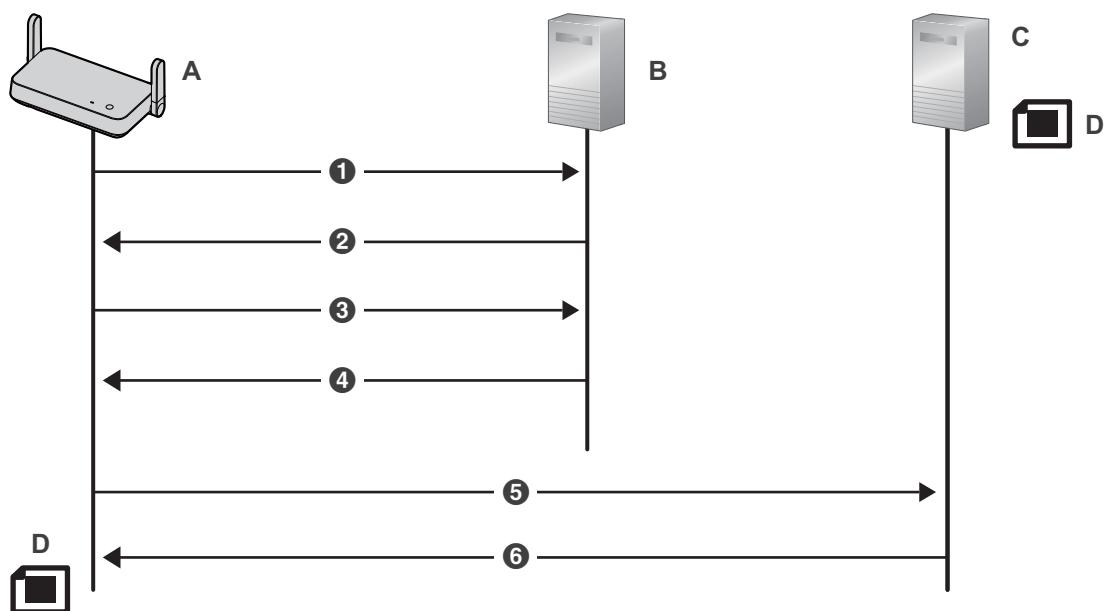
a. Basic Sequence

In a DHCPv4 environment, the phone will transmit a DHCP DISCOVER message for DHCP options (66, 67, 159 and 160), receive a DHCP OFFER message, obtain a pre-provisioning server address and obtain a provisioning server address from the pre-provisioning server.

Note

- DHCP options (66, 159 and 160) are enabled in the initial state and can be enabled and disabled from the configuration parameters.

| DHCP options | Configuration parameter | Priority |
|--------------|-------------------------|----------|
| Option 66 | OPTION66_ENABLE | 3 |
| Option 159 | OPTION159_PROV_ENABLE | 2 |
| Option 160 | OPTION160_PROV_ENABLE | 1 |



- A. KX-TGP700
- B. DHCP Server
- C. Pre-provisioning Server
- D. KX-TGP700.cfg

- ① DHCP DISCOVER
- ② DHCP OFFER
- ③ DHCP REQUEST
- ④ DHCP ACK
- ⑤ TFTP {MODEL}.cfg
- ⑥ 200OK

Obtain provisioning server information

`CFG_STANDARD_FILE_PATH`
`CFG_PRODUCT_FILE_PATH`
`CFG_MASTER_FILE_PATH`

- b. Format for pre-provisioning files obtained from DHCP option 67
Format: <path>/<file name>

| | | |
|-------------|-----------|-----------|
| <path> | Optional | path |
| <file name> | Mandatory | file name |

1. Case 1: File name only
{MODEL}.cfg
2. Case 2: Path and file name
pana/{MODEL}.cfg

2.1.5 Obtaining a Provisioning Server Address from DHCP Options

- c. Format for pre-provisioning server address obtained from DHCP options 159 and 160
Format: <scheme>://<user>:<password>@<host>:<port>/<path>

| | | |
|------------|-----------|--------------------------------|
| <scheme> | Mandatory | Protocol (TFTP/FTP/HTTP/HTTPS) |
| <user> | Optional | User name |
| <password> | Optional | Password |
| <host> | Mandatory | IP Address or Domain |
| <port> | Optional | Port number |
| <path> | Optional | Path |

The obtained file is the <path>/<file name> set in DHCP option 67.

If DHCP option 67 is not set, {MODEL}.cfg is obtained.

The examples in parentheses below are when {MODEL}.cfg is set for DHCP option 67.

1. Case 1: Protocol and server name
http://10.0.0.1 (http://10.0.0.1/{MODEL}.cfg)
http://prov.com (http://prov.com/{MODEL}.cfg)
2. Case 2: Protocol, server name and path
http://10.0.0.1/pana (http://10.0.0.1/pana/{MODEL}.cfg)
http://prov.com/pana (http://prov.com/pana/{MODEL}.cfg)
3. Case 3: Protocol, user name, password and server name
http://id:pass@10.0.0.1 (http://id:pass@10.0.0.1/{MODEL}.cfg)
http://id:pass@prov.com (http://id:pass@prov.com/{MODEL}.cfg)

- d. Format for pre-provisioning server address obtained from DHCP option 66

Format: <scheme>://<user>:<password>@<host>:<port>/<path>/<file name>

| | | |
|-------------|-----------|--------------------------------|
| <scheme> | Optional | Protocol (TFTP/FTP/HTTP/HTTPS) |
| <user> | Optional | User name |
| <password> | Optional | Password |
| <host> | Mandatory | IP Address or Domain |
| <port> | Optional | Port number |
| <path> | Optional | Path |
| <file name> | Optional | File name |

If DHCP option 66 does not include <scheme>, {MODEL}.cfg is obtained.¹

If the last character of DHCP option 66 is "/", {MODEL}.cfg is obtained.¹

If xxx.cfg is specified as <file name> in DHCP option 66, xxx.cfg is obtained.

¹ For models except those in the USA: Regardless of DHCP option 67 setting, {MODEL}.cfg is obtained.
For models in the USA: If DHCP option 67 is set, the file in DHCP option 67 is obtained.

The examples in parentheses below show when {MODEL}.cfg is obtained.

1. Case 1: Protocol and server name
http://10.0.0.1/ (http://10.0.0.1/{MODEL}.cfg)
http://prov.com/ (http://prov.com/{MODEL}.cfg)
2. Case 2: Protocol, server name and path
http://10.0.0.1/pana/ (http://10.0.0.1/pana/{MODEL}.cfg)
http://prov.com/pana/ (http://prov.com/pana/{MODEL}.cfg)
3. Case 3: Protocol, user name, password and server name

`http://id:pass@10.0.0.1/ (http://id:pass@10.0.0.1/{MODEL}.cfg)`
`http://id:pass@prov.com/ (http://id:pass@prov.com/{MODEL}.cfg)`

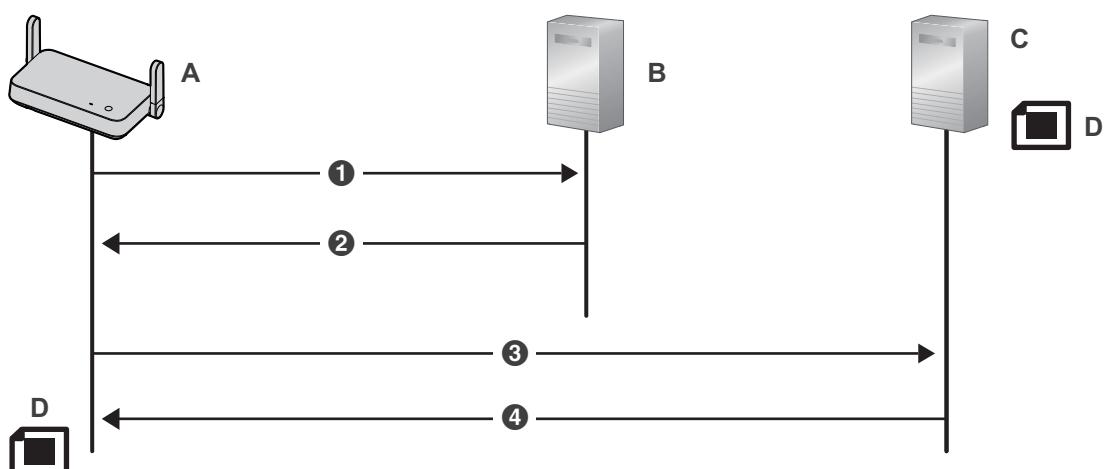
4. Case 4: Server name
`tftp://10.0.0.1 (tftp://10.0.0.1/{MODEL}.cfg)`
`tftp://prov.com (tftp://prov.com/{MODEL}.cfg)`

2. DHCPv6

- a. In a DHCPv6 environment, the phone will transmit a DHCPv6 REQUEST message for DHCP option 17, receive a DHCPv6 REPLY message, obtain a pre-provisioning server address and obtain a provisioning server address from the pre-provisioning server.

Note

- DHCP option 17 is enabled in the initial state and can be enabled and disabled from the configuration parameters ("DHCPV6_OPTION17_PROV_ENABLE").



- A. KX-TGP700
B. DHCP Server
C. Pre-provisioning Server
D. KX-TGP700.cfg

- ① DHCPv6 REQUEST
- ② DHCPv6 REPLY
- ③ TFTP {MODEL}.cfg
- ④ 200OK

Obtain provisioning server information
`CFG_STANDARD_FILE_PATH`
`CFG_PRODUCT_FILE_PATH`
`CFG_MASTER_FILE_PATH`

- b. Format for pre-provisioning addresses obtained from DHCPv6 option 17
Format: <scheme>://<user>:<password>@<host>:<port>/<url-path>

| | | |
|----------|-----------|--------------------------------|
| <scheme> | Mandatory | Protocol (TFTP/FTP/HTTP/HTTPS) |
|----------|-----------|--------------------------------|

| | | |
|-------------|-----------|---------------------------|
| <user> | Optional | User name |
| <password> | Optional | Password |
| <host> | Mandatory | IP Address or Domain |
| <port> | Optional | Port number |
| <url-path> | Optional | Full path of the resource |
| <file name> | Mandatory | File name |

1. Case 1: Protocol, server name, and file name
http://[2001:0db8:bd05:01d2:288a:1fc0:0001:10ee]/{MODEL}.cfg
http://prov.com/{MODEL}.cfg
2. Case 2: Protocol, server name, path and file name
http://[2001:db8::1234:0:0:9abc]/pana/{MODEL}.cfg
http://prov.com/pana/{MODEL}.cfg
3. Case 3: Protocol, user name, password, server name and file name
http://id:pass@[2001:db8::9abc]/{MAC}.cfg
http://id:pass@prov.com/{MAC}.cfg

2.2 Provisioning

2.2.1 What is Provisioning?

After pre-provisioning has been performed (→ see [2.1 Pre-provisioning](#)), you can set up the unit automatically by downloading the configuration file stored on the provisioning server into the unit. This is called "provisioning".

2.2.2 Protocols for Provisioning

Provisioning can be performed over HTTP, HTTPS, FTP, and TFTP. The protocol you should use differs depending on how you will perform provisioning. Normally, HTTP, HTTPS, or FTP is used for provisioning. If you are transmitting encrypted configuration files, it is recommended that you use HTTP. If you are transmitting unencrypted configuration files, it is recommended that you use HTTPS. You may not be able to use FTP depending on the conditions of the network router or the network to be used.

2.2.3 Configuration File

This section gives concrete examples of the functions of the configuration file and how to manage it. The configuration file is a text file that contains the various settings that are necessary for operating the unit. The files are normally stored on a server maintained by your phone system dealer/service provider, and will be downloaded to the units as required. All configurable settings can be specified in the configuration file. You can ignore settings that already have the desired values. Only change parameters as necessary. For details about setting parameters and their descriptions, see [4 Configuration File Programming](#).

Using 3 Types of Configuration Files

The unit can download up to 3 configuration files. One way to take advantage of this is by classifying the configuration files into the following 3 types:

| Type | Usage |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Master configuration file | <p>Configure settings that are common to all units, such as the SIP server address, and the IP addresses of the DNS and NTP (Network Time Protocol) servers managed by your phone system dealer/service provider. This configuration file is used by all the units.</p> <p>Example of the configuration file's URL: http://prov.example.com/Panasonic/ConfigCommon.cfg</p> |
| Product configuration file | <p>Configure settings that are required for a particular model, such as the default setting of the privacy mode. This configuration file is used by all the units that have the same model name.</p> <p>The same number of configuration files as models being used on the network are stored on the provisioning server, and units with the same model name download the corresponding configuration file.</p> <p>Example of the configuration file's URL: http://prov.example.com/Panasonic/Config{MODEL}.cfg</p> <p>Note</p> <ul style="list-style-type: none"> When a unit requests the configuration file, "{MODEL}" is replaced by the model name of the unit. |
| Standard configuration file | <p>Configure settings that are unique to each unit, such as the phone number, user ID, password, etc.</p> <p>The same number of configuration files as units are stored on the provisioning server, and each unit downloads the corresponding standard configuration file.</p> <p>Example of the configuration file's URL: http://prov.example.com/Panasonic/Config{MAC}.cfg</p> <p>Note</p> <ul style="list-style-type: none"> When a unit requests the configuration file, "{MAC}" is replaced by the MAC address of the unit. |

Depending on the situation, you can use all 3 types of configuration files, and can also use only a standard configuration file.

The above example shows only one possible way to use configuration files. Depending on the requirements of your phone system dealer/service provider, there are a number of ways to use configuration files effectively.

Using 2 Types of Configuration Files

The following table shows an example of using 2 types of configuration files: a master configuration file to configure settings common to all units, and product configuration files to configure settings common to particular groups.

Using Product Configuration Files According to the Position Groups

You can use product configuration files for different groups or for multiple users within the same group.

| Department Name | URL of Product Configuration File |
|-----------------|-------------------------------------------------------------------------------------------------------------------|
| Sales | http://prov.example.com/Panasonic/ConfigSales.cfg |

2.2.4 Downloading Configuration Files

| Department Name | URL of Product Configuration File |
|-----------------|------------------------------------------------------|
| Planning | http://prov.example.com/Panasonic/ConfigPlanning.cfg |

2.2.4 Downloading Configuration Files

Downloading a Configuration File via the Web User Interface

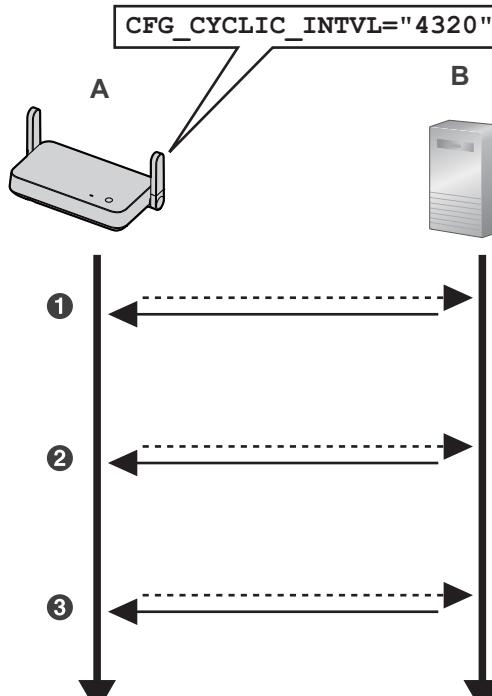
The following procedure describes how to enable downloading a configuration file via the Web User Interface to be used for programming the unit.

1. Confirm that the provisioning server's IP address/FQDN and directory are correct, and store the configuration files in the directory (e.g., http://provisioning.example.com/Panasonic/Config_Sample.cfg).
2. Enter the IP address of the unit into the PC's Web browser (→ see [1.1.6.3 Before Accessing the Web User Interface](#)).
3. Log in as the administrator (→ see **Access Levels (IDs and Passwords)** in [1.1.6.3 Before Accessing the Web User Interface](#)).
4. Click the **[Maintenance]** tab, and then select **[Provisioning Maintenance]**.
5. Enter the URL set up in Step 1 in **[Standard File URL]**.
6. Click **[Save]**.

Timing of Downloading

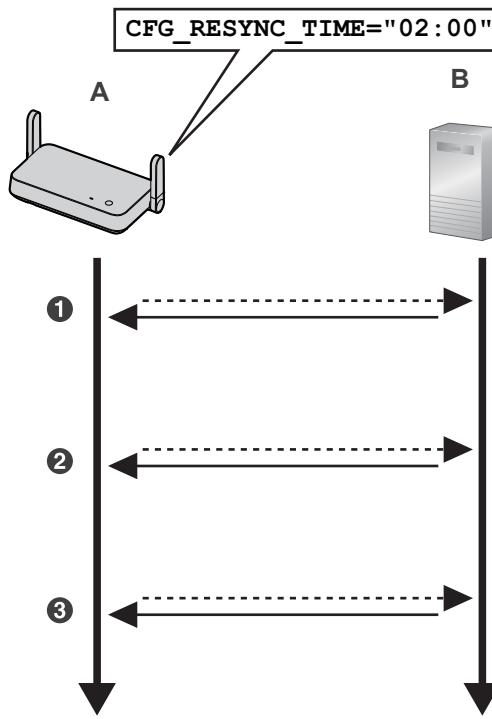
A unit downloads configuration files when it starts up, at regular intervals, and when directed to do so by the server.

| Download Timing | Explanation |
|-----------------|-----------------------------------------------------------------|
| Startup | The configuration files are downloaded when the unit starts up. |

| Download Timing | Explanation |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| At regular intervals of time | <p>The configuration files are downloaded at specified intervals of time, set in minutes. In the example below, the unit has been programmed to download configuration files from the provisioning server every 3 days (4320 minutes).</p>  <p>A. KX-TGP700 B. Provisioning Server</p> <ul style="list-style-type: none"> ① Power on ② 3 days later ③ 6 days later <p>→ : Check ← : Download</p> |

2.2.4 Downloading Configuration Files

| Download Timing | Explanation |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>The configuration files are downloaded periodically under the following conditions:</p> <ul style="list-style-type: none">• In the configuration file, add the line, <code>CFG_CYCLIC="Y"</code>.<ul style="list-style-type: none">– Set an interval (minutes) by specifying "<code>CFG_CYCLIC_INTVL</code>".• In the Web user interface:<ul style="list-style-type: none">– Click the [Maintenance] tab, click [Provisioning Maintenance], and then select [Yes] for [Cyclic Auto Resync].– Enter an interval (minutes) in [Resync Interval]. <p>Note</p> <ul style="list-style-type: none">• The interval may be determined by your phone system dealer/service provider. A maximum interval of 28 days (40320 minutes) can be set on the unit. |

| Download Timing | Explanation |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| At a specified time each day | <p>After the unit is powered on, it will download configuration files once per day at the specified time.</p>  <p>A. KX-TGP700 B. Provisioning Server</p> <p>① power on at 12:00 ② 02:00 ③ 02:00</p> <p>---> : Check ← : Download</p> <ul style="list-style-type: none"> • In the configuration file: <ul style="list-style-type: none"> – Set a time by specifying "CFG_RESYNC_TIME". • In the Web user interface: <ul style="list-style-type: none"> – Click the [Maintenance] tab, click [Provisioning Maintenance], and then enter the time in [Time Resync]. <p>Note</p> <ul style="list-style-type: none"> • The time is specified using a 24-hour clock ("00:00" to "23:59"). |

2.2.4 Downloading Configuration Files

| Download Timing | Explanation |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| When directed | <p>When a setting needs to be changed immediately, units can be directed to download the configuration files by sending them a NOTIFY message that includes a special event from the SIP server.</p> <ul style="list-style-type: none">• In the configuration file:<ul style="list-style-type: none">– Specify the special event text in "CFG_RESYNC_FROM_SIP".• In the Web user interface:<ul style="list-style-type: none">– Click the [Maintenance] tab, click [Provisioning Maintenance], and then enter the special event text in [Header Value for Resync Event]. <p>Generally, "check-sync" or "resync" is set as the special event text.</p> |

| Download Timing | Explanation |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| At a specified time, day of week and weekly interval. | <p>After the unit is powered on, it will download configuration files once per specified number of week(s) at the specified day of week and time.</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <pre>CFG_DL_WEEKLY_INTERVAL="2" CFG_DL_WEEKLY_DAY_OF_WEEK="6" CFG_RESYNC_TIME="02:00" CFG_RESYNC_DURATION="180"</pre> </div> <p>A. KX-TGP700 B. Provisioning Server</p> <ul style="list-style-type: none"> ① power on at Saturday, 12:00 ② 02:00–05:00 on Saturday (2 weeks later) ③ 02:00–05:00 on Saturday (4 weeks later) <p>→ : Check ← : Download</p> <ul style="list-style-type: none"> • In the configuration file: <ul style="list-style-type: none"> – Set a weekly interval, "CFG_DL_WEEKLY_INTERVAL". If "CFG_DL_WEEKLY_INTERVAL" is set to "0", refer to the "At a specified time each day". – Set a day of week "CFG_DL_WEEKLY_DAY_OF_WEEK". – Set a time by specifying "CFG_RESYNC_TIME". – Set a time range (in minutes) during which connected units can access the server by specifying "CFG_RESYNC_DURATION". |

2.2.5 Provisioning Server Setting Example

This section gives an example of how to set up the units and provisioning server when configuring 2 units with configuration files. The standard configuration files and the master configuration file are used in this example.

Conditions

| Item | Description/Setting |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Provisioning server FQDN | prov.example.com |
| Units' MAC addresses | <ul style="list-style-type: none"> • 0080F0111111 • 0080F0222222 |
| URL of the configuration files | <p>Configure the following 2 settings either by pre-provisioning or through the Web user interface. The values of both settings must be the same.</p> <ul style="list-style-type: none"> • <code>CFG_STANDARD_FILE_PATH="http://prov.example.com/Panasonic/Config{MAC}.cfg"</code> • <code>CFG_MASTER_FILE_PATH="http://prov.example.com/Panasonic/ConfigCommon.cfg"</code> |
| Directory on the provisioning server containing the configuration files | Create the "Panasonic" directory just under the HTTP root directory of the provisioning server. |
| File name of configuration files | <p>Store the following configuration files in the "Panasonic" directory.</p> <ul style="list-style-type: none"> • Contains the common settings for the 2 units: <ul style="list-style-type: none"> – ConfigCommon.cfg • Contains the settings unique to each unit: <ul style="list-style-type: none"> – Config0080F0111111.cfg – Config0080F0222222.cfg |

To set up the provisioning server

1. Connect the units to the network, and turn them on.
 - a. The unit with the MAC address 0080F0111111 accesses the following URLs:
<http://prov.example.com/Panasonic/ConfigCommon.cfg>
<http://prov.example.com/Panasonic/Config0080F0111111.cfg>
 - b. The unit with the MAC address 0080F0222222 accesses the following URLs:
<http://prov.example.com/Panasonic/ConfigCommon.cfg>
<http://prov.example.com/Panasonic/Config0080F0222222.cfg>

Example Provisioning Direction from the Server

The following figure shows an example NOTIFY message from the server, directing the units to perform provisioning. The text "check-sync" is specified for "CFG_RESYNC_FROM_SIP".

```

NOTIFY sip:1234567890@sip.example.com SIP/2.0
Via: SIP/2.0/UDP xxx.xxx.xxx.xxx:5060;branch=abcdef-ghijkl
From: sip:prov@sip.example.com
To: sip:1234567890@sip.example.com
Date: Wed, 1 Jan 2014 01:01:01 GMT
Call-ID: 123456-1234567912345678
CSeq: 1 NOTIFY
Contact: sip:xxx.xxx.xxx.xxx:5060
Event: check-sync
Content-Length: 0

```

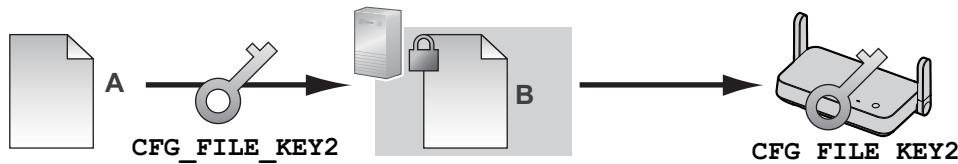
2.2.6 Encryption

Secure Provisioning Methods

In order to perform provisioning securely, there are 2 methods for transferring configuration files securely between the unit and the server.

Which method is used depends on the environment and equipment available from the phone system.

Method 1: Transferring Encrypted Configuration Files



- A. Unencrypted configuration file
- B. Encrypted configuration file

To use this method, an encryption key is required to encrypt and decrypt the configuration files. A preset encryption key unique to each unit, an encryption key set by your phone system dealer/service provider, etc., is used for the encryption. When the unit downloads an encrypted configuration file, it will decrypt the file using the same encryption key, and then configure the settings automatically.

Method 2: Transferring Configuration Files Using HTTPS

This method uses SSL, which is commonly used on the Internet, to transfer configuration files between the unit and server. For more secure communication, you can use a root certificate.

Notice

- To avoid redundant data transfer over the network, important data, such as the encryption key used to encrypt the configuration files and the root certificate for SSL, should be configured through pre-provisioning as much as possible.
- It is recommended that you encrypt the data in order to keep the communication secure when transferring configuration files.
However, if you are using the units within a secure environment, such as within an intranet, it is not necessary to encrypt the data.

To decrypt configuration files, the unit uses the encryption key registered to it beforehand. The unit determines the encryption status by checking the extension of the downloaded configuration file. For details about encrypting configuration files, contact the appropriate person in your organization.

2.3 Priority of Setting Methods

| Extension of Configuration File | Configuration File Parameters Used for Decrypting |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| ".e2c" | <code>CFG_FILE_KEY2</code> |
| ".e3c" | <code>CFG_FILE_KEY3</code> |
| Other than ".e2c", and ".e3c" | Processed as unencrypted configuration files. The extension ".cfg" should be used for unencrypted configuration files. |

Comparison of the 2 Methods

The following table compares the characteristics for the 2 transfer methods.

| | Transferring Encrypted Configuration Files | Transferring Configuration Files Using HTTPS |
|-----------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------|
| Provisioning server load | Light | Heavy (The server encrypts data for each transmission.) |
| Operation load | Necessary to encrypt data beforehand. | Unnecessary to encrypt data beforehand. |
| Management of configuration files | Files must be decrypted and re-encrypted for maintenance. | It is easy to manage files because they are not encrypted on the server. |
| Security of data on the server when operating | High | Low (Configuration files are readable by anyone with access to the server.) |

Moreover, there is another method: configuration files are not encrypted while stored on the server, and then, using the encryption key registered to the unit beforehand, they are encrypted when they are transferred. This method is particularly useful when several units are configured to download a common configuration file using different encryption keys. However, as when downloading an unencrypted configuration file using HTTPS, the server will be heavily burdened when transferring configuration files.

2.3 Priority of Setting Methods

The same settings can be configured by different configuration methods: provisioning, Web user interface programming, etc. This section explains which value is applied when the same setting is specified by multiple methods.

The following table shows the priority with which settings from each method are applied (lower numbers indicate higher priority):

| Priority | Setting Method | |
|-----------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|
| 3 | The factory default settings for the unit | |
| 2 | Pre-provisioning with the configuration file | |
| 1 | 1-1 | Provisioning with the standard configuration file |
| | 1-2 | Provisioning with the product configuration file |
| | 1-3 | Provisioning with the master configuration file |
| Settings configured from the Web user interface or the phone user interface | | |

According to the table, settings configured later override previous settings (i.e., settings listed lower in the table have a higher priority).

Notice

- Make sure to perform Reset to Factory Default before connecting the unit to a different phone system. Contact your phone system dealer/service provider for further information.

2.4 Configuration File Specifications

The specifications of the configuration files are as follows:

File Format

The configuration file is in plain text format.

Lines in Configuration Files

A configuration file consists of a sequence of lines, with the following conditions:

- Each line must end with "<CR><LF>".

Note

<CR> or <LF> alone may be acceptable under certain conditions.

- Lines that begin with "#" are considered comments.
- Configuration files must start with a comment line containing the following designated character sequence (44 bytes):

```
# Panasonic SIP Phone Standard Format File #
```

The hexadecimal notation of this sequence is:

```
23 20 50 61 6E 61 73 6F 6E 69 63 20 53 49 50 20
50 68 6F 6E 65 20 53 74 61 6E 64 61 72 64 20 46
6F 72 6D 61 74 20 46 69 6C 65 20 23
```

- To prevent the designated character sequence being altered by chance, it is recommended that the configuration file starts with the comment line shown below:

```
# Panasonic SIP Phone Standard Format File # DO NOT CHANGE THIS LINE!
```

- Configuration files must end with an empty line.
- Each parameter line is written in the form of XXX="yyy" (XXX: parameter name, yyy: parameter value). The value must be enclosed by double quotation marks.
- A parameter line written over multiple lines is not allowed. It will cause an error on the configuration file, resulting in invalid provisioning.

Configuration Parameters

- The unit supports multiple telephone lines. For some parameters, the value for each line must be specified independently. A parameter name with the suffix "_1" is the parameter for line 1; "_2" for line 2, and so on.

Examples of setting the line (phone number) for accessing a voice mail server:

```
"VM_NUMBER_1": for line 1,  
"VM_NUMBER_2": for line 2, ...,  
"VM_NUMBER_16": for line 16
```

Note

- The number of lines available varies depending on the phone being used, as follows:
 - KX-TGP700: 1–16
- Some parameter values can be specified as "empty" to set the parameter values to empty.
Example:
`NTP_ADDR=""`

2.5 Configuration File Examples

- The parameters have no order.
- If the same parameter is specified in a configuration file more than once, the value specified first is applied.
- All configurable settings can be specified in the configuration file. You can ignore settings that already have the desired values. Only change parameters as necessary.
- Boolean parameters (BOOLEAN) accept all of the following configurations.
"Y": "Y", "y", "Yes", "YES", "yes"
"N": "N", "n", "No", "NO", "no"

Parameter Extensions

You can use parameter extensions to specify parameters as Read-Only or Carrier Default.

Read-Only Specification

- When "?R" or "?r" is specified, the phone user interface and Web user interface for the parameter in question is restricted to Read-Only.
 - * Restricting the phone user interface to Read-Only
The Read-Only parameter settings menu appears, but an error occurs during registration.
 - * Restricting the Web user interface to Read-Only
The Read-Only parameter settings menu appears grayed out and nothing can be entered.

Note

- Parameters that can be configured from the device and from the Web can be confirmed from footnotes 1-3 on the parameter names in "4.1 Configuration File Parameter List".
- When "?R" or "?r" is not specified, the phone user interface and Web user interface are both readable and writable.
 - * Optional specifications for "?R" and "?r" are enabled when the last parameter in question is configured.

Carrier Default Specification

- When "?!" is specified, applicable parameter values are managed as carrier default values when applied to operational information.
 - * Carrier default values are applied once a reset to carrier defaults is executed. Carrier defaults will also be initialized when a reset to device defaults is executed.
 - * Once "?!" is specified, the parameter in question will be designated as a carrier default even if said parameter is configured without "?!". (This setting will remain in place until restored to factory default.)

Specification of Multiple Parameter Extensions

- One parameter can be assigned multiple extensions.
Example: XXX?R?!="" / XXX?!=r=""

Parameter Extension Configuration Example

1. In the configuration file, set IP Addressing Mode to IPv4 and Read-Only
Example parameter: IP_ADDR_MODE?R="0" ("0": IPv4)
2. If an error occurs when attempting to set the IP Mode to IPv6, see **To configure IP Mode (IPv4, IPv6, IPv4&IPv6)** in **Configuring the Network Settings of the Unit**.

2.5 Configuration File Examples

The following examples of configuration files are provided on the Panasonic Web site (→ see **Introduction**).

- Simplified Example of the Configuration File

- Comprehensive Example of the Configuration File

2.5.1 Examples of Codec Settings

Setting the Codec Priority to (1)G.729A, (2)PCMU, (3)G.722

```
## Codec Settings
# Enable G722
CODEC_ENABLE0_1="Y"
CODEC_PRIORITY0_1="3"
# Disable PCMA
CODEC_ENABLE1_1="N"
# Enable G729A
CODEC_ENABLE3_1="Y"
CODEC_PRIORITY3_1="1"
# Enable PCMU
CODEC_ENABLE4_1="Y"
CODEC_PRIORITY4_1="3"
WIDEBAND_AUDIO_ENABLE="Y"
```

Setting Narrow-band Codecs (PCMA and G.729A)

```
## Codec Settings
# Disable G722
CODEC_ENABLE0_1="N"
# Enable PCMA
CODEC_ENABLE1_1="Y"
CODEC_PRIORITY1_1="1"
# Enable G729A
CODEC_ENABLE3_1="Y"
CODEC_PRIORITY3_1="1"
# Disable PCMU
CODEC_ENABLE4_1="N"
```

Setting the G.729A Codec Only

```
## Codec Settings
# Disable G722
CODEC_ENABLE0_1="N"
# Disable PCMA
CODEC_ENABLE1_1="N"
# Enable G729A
CODEC_ENABLE3_1="Y"
CODEC_PRIORITY3_1="1"
# Disable PCMU
CODEC_ENABLE4_1="N"
```

2.5.2 Example with Incorrect Descriptions

The following listing shows an example of a configuration file that contains incorrect formatting:

- ① An improper description is entered in the first line. A configuration file must start with the designated character sequence "# Panasonic SIP Phone Standard Format File #".
- ② Comment lines start in the middle of the lines.

2.5.2 Example with Incorrect Descriptions

Incorrect Example

```
# This is a simplified sample configuration file. —❶
#####
# Configuration Setting #
#####

CFG_STANDARD_FILE_PATH="http://config.example.com/0123456789AB.cfg"
    # URL of this configuration file

#####
# SIP Settings #
# Suffix "_1" indicates this parameter is for "line 1". #
#####

SIP_RGSTR_ADDR_1="registrar.example.com" # IP Address or FQDN of SIP registrar server —❷
SIP_PRXY_ADDR_1="proxy.example.com"      # IP Address or FQDN of proxy server
```

Section 3

Web User Interface Programming

This section provides information about the settings available in the Web user interface.

3.1 Web User Interface Setting List

The following tables show all the settings that you can configure from the Web user interface and the access levels. For details about each setting, see the reference pages listed.

For details about setting up Web user interface programming, see [1.1.6 Web User Interface Programming](#).

Status

| Menu Item | Section Title | Setting | Access Level ¹ | | Ref. |
|---------------------|---------------------|----------------------|---------------------------|---|---------|
| | | | U | A | |
| Version Information | Base Unit | Model | ✓ | ✓ | page 59 |
| | | Operating Bank | ✓ | ✓ | page 59 |
| | | IPL Version | ✓ | ✓ | page 59 |
| | | Firmware Version | ✓ | ✓ | page 59 |
| | Handset | Model | ✓ | ✓ | page 59 |
| | | Firmware Version | ✓ | ✓ | page 60 |
| Handset Information | Handset Information | Handset 1–16 | - | - | - |
| | | Model | ✓ | ✓ | page 60 |
| | | Firmware Version | ✓ | ✓ | page 60 |
| Network Status | Network Common | MAC Address | ✓ | ✓ | page 61 |
| | | Ethernet Link Status | ✓ | ✓ | page 61 |
| | | IP Address Mode | ✓ | ✓ | page 61 |
| | IPv4 | Connection Mode | ✓ | ✓ | page 61 |
| | | IP Address | ✓ | ✓ | page 62 |
| | | Subnet Mask | ✓ | ✓ | page 62 |
| | | Default Gateway | ✓ | ✓ | page 62 |
| | | DNS1 | ✓ | ✓ | page 62 |
| | | DNS2 | ✓ | ✓ | page 62 |
| | IPv6 | Connection Mode | ✓ | ✓ | page 62 |
| | | IP Address | ✓ | ✓ | page 63 |
| | | Prefix | ✓ | ✓ | page 63 |
| | | Default Gateway | ✓ | ✓ | page 63 |
| | | DNS1 | ✓ | ✓ | page 63 |
| | | DNS2 | ✓ | ✓ | page 63 |
| | VLAN | Setting Mode | ✓ | ✓ | page 63 |
| | | VLAN ID | ✓ | ✓ | page 64 |
| | | VLAN Priority | ✓ | ✓ | page 64 |

| Menu Item | Section Title | Setting | Access Level ¹ | | Ref. |
|-------------|---------------|---------------|---------------------------|---|---------|
| | | | U | A | |
| VoIP Status | VoIP Status | Line No. 1-16 | - | - | - |
| | | Phone Number | ✓ | ✓ | page 64 |
| | | VoIP Status | ✓ | ✓ | page 64 |

¹ The access levels are abbreviated as follows:

U: User; A: Administrator

A check mark indicates that the setting is available for that access level.

Network

| Menu Item | Section Title | Setting | Access Level ¹ | | Ref. |
|------------------------|------------------------|--------------------------------|---------------------------|---|---------|
| | | | U | A | |
| Basic Network Settings | IPv4 | IP Addressing Mode | | ✓ | page 66 |
| | | Connection Mode ² | | ✓ | page 66 |
| | | DHCP Host Name ³ | | ✓ | page 66 |
| | | IP Address ² | | ✓ | page 67 |
| | | Subnet Mask ² | | ✓ | page 67 |
| | | Default Gateway ² | | ✓ | page 67 |
| | | Auto DNS via DHCP ² | | ✓ | page 67 |
| | | DNS1 ² | | ✓ | page 68 |
| | | DNS2 ² | | ✓ | page 68 |
| | IPv6 | Connection Mode ² | | ✓ | page 68 |
| | | IP Address ² | | ✓ | page 68 |
| | | Prefix ² | | ✓ | page 69 |
| | | Default Gateway ² | | ✓ | page 69 |
| | | Auto DNS via DHCP ² | | ✓ | page 69 |
| | | DNS1 ² | | ✓ | page 69 |
| | | DNS2 ² | | ✓ | page 69 |
| Ethernet Port Settings | Link Speed/Duplex Mode | LAN Port ² | | ✓ | page 70 |
| | | Enable LLDP ² | | ✓ | page 71 |
| | LLDP | Packet Interval ³ | | ✓ | page 71 |
| | | Enable CDP ² | | ✓ | page 71 |
| | CDP | Packet Interval ² | | ✓ | page 71 |
| | | Enable VLAN ² | | ✓ | page 72 |
| | | VLAN ID ² | | ✓ | page 72 |

3.1 Web User Interface Setting List

| Menu Item | Section Title | Setting | Access Level ¹ | | Ref. |
|---------------------------|----------------------|------------------------------------------|---------------------------|---|---------|
| | | | U | A | |
| | | Priority ² | | ✓ | page 72 |
| HTTP Client Settings | HTTP Client | HTTP Version ³ | | ✓ | page 73 |
| | | HTTP User Agent ³ | | ✓ | page 73 |
| | | Authentication ID ² | | ✓ | page 73 |
| | | Authentication Password ² | | ✓ | page 74 |
| | Proxy Server | Enable Proxy ³ | | ✓ | page 74 |
| | | Proxy Server Address ³ | | ✓ | page 74 |
| | | Proxy Server Port ³ | | ✓ | page 74 |
| STUN Settings | STUN | Server Address ³ | | ✓ | page 75 |
| | | Port ³ | | ✓ | page 75 |
| | | Binding Interval ³ | | ✓ | page 75 |
| Multicast Paging Settings | Multicast Paging | Group 1–5 | — | — | — |
| | | - IPv4 Address ³ | | ✓ | page 76 |
| | | - IPv6 Address ³ | | ✓ | page 76 |
| | | - Port ³ | | ✓ | page 76 |
| | | - Priority ³ (Group 1–3 only) | | ✓ | page 77 |
| | | - Label ³ | | ✓ | page 77 |
| | | - Enable Transmission ³ | | ✓ | page 77 |
| LDAP Settings | LDAP | Enable LDAP ³ | | ✓ | page 77 |
| | | Max Hits ³ | | ✓ | page 78 |
| | | Enable DNS SRV lookup ³ | | ✓ | page 78 |
| | Server Common | Server Address ³ | | ✓ | page 78 |
| | | Port ³ | | ✓ | page 79 |
| | | User ID ³ | | ✓ | page 79 |
| | | Password ³ | | ✓ | page 79 |
| | | Name Filter ³ | | ✓ | page 79 |
| | | Number Filter ³ | | ✓ | page 79 |
| | | Name Attributes ³ | | ✓ | page 79 |
| | | Number Attributes ³ | | ✓ | page 80 |
| | | Distinguished Name(Base DN) ³ | | ✓ | page 80 |
| | Server 1 - Server 16 | Server Address ³ | | ✓ | page 80 |
| | | Port ³ | | ✓ | page 80 |
| | | User ID ³ | | ✓ | page 81 |

| Menu Item | Section Title | Setting | Access Level ¹ | | Ref. |
|--------------------------|--------------------------------------|-------------------------------------------|---------------------------|---|---------|
| | | | U | A | |
| | | Password ^{*3} | | ✓ | page 81 |
| | | Name Filter ^{*3} | | ✓ | page 81 |
| | | Number Filter ^{*3} | | ✓ | page 81 |
| | | Name Attributes ^{*3} | | ✓ | page 81 |
| | | Number Attributes ^{*3} | | ✓ | page 82 |
| | | Distinguished Name(Base DN) ^{*3} | | ✓ | page 82 |
| Xtended Service Settings | Xtended Service | Enable Xtended Service ^{*3} | | ✓ | page 82 |
| | | Server Address ^{*3} | | ✓ | page 82 |
| | | Port ^{*3} | | ✓ | page 83 |
| | | Protocol ^{*3} | | ✓ | page 83 |
| | | SIP Credentials ^{*3} | | ✓ | page 83 |
| | Xtended Service Settings [Line 1–16] | Line 1–16 | — | — | — |
| | | - User ID ^{*2} | | ✓ | page 83 |
| | | - Password ^{*2} | | ✓ | page 84 |
| | | - Enable Phonebook ^{*3} | | ✓ | page 84 |
| | | - Phonebook Type ^{*3} | | ✓ | page 84 |
| UC Settings | Presence Feature | - Group ^{*3} | | ✓ | page 84 |
| | | - GroupCommon ^{*3} | | ✓ | page 85 |
| | | - Enterprise ^{*3} | | ✓ | page 85 |
| | | - EnterpriseCommon ^{*3} | | ✓ | page 85 |
| | | - Personal ^{*3} | | ✓ | page 85 |
| | | - Enable Call Log ^{*3} | | ✓ | page 86 |
| XML Application Settings | XML Application | Enable XMLAPP ^{*3} | | ✓ | page 88 |
| | | User ID ^{*3} | | ✓ | page 88 |
| | | Password ^{*3} | | ✓ | page 88 |
| | | Local XML Port ^{*3} | | ✓ | page 88 |
| | XML Phonebook | LDAP URL ^{*3} | | ✓ | page 89 |

3.1 Web User Interface Setting List

| Menu Item | Section Title | Setting | Access Level ^{*1} | | Ref. |
|----------------|---------------|---------------------------------------|----------------------------|---|---------|
| | | | U | A | |
| | | User ID ^{*3} | | ✓ | page 89 |
| | | Password ^{*3} | | ✓ | page 89 |
| | | Max Hits ^{*3} | | ✓ | page 89 |
| TWAMP Settings | TWAMP | Enable TWAMP ^{*3} | | ✓ | page 90 |
| | | Control Port ^{*3} | | ✓ | page 90 |
| | | Test Port ^{*3} | | ✓ | page 90 |
| | | Wait Time for Control ^{*3} | | ✓ | page 90 |
| | | Wait Time for Reflector ^{*3} | | ✓ | page 91 |

^{*1} The access levels are abbreviated as follows:

U: User; A: Administrator

A check mark indicates that the setting is available for that access level.

^{*2} This setting can also be configured through other programming methods (phone user interface programming or configuration file programming).

^{*3} This setting can also be configured through configuration file programming.

System

| Menu Item | Section Title | Setting | Access Level ^{*1} | | Ref. |
|-------------------------|---------------------|---------------------------------------------|----------------------------|---|---------|
| | | | U | A | |
| System Settings | System | Enable Multi Number ^{*2} | | ✓ | page 91 |
| | | Enable SIP Trunk Service ^{*2} | | ✓ | page 91 |
| | | Enable Non-Registering SIP UA ^{*2} | | ✓ | page 92 |
| | | Send RTP on Call Hold ^{*2} | | ✓ | page 92 |
| Language Settings | Selectable Language | Handset ^{*2} | | ✓ | page 93 |
| | | Web ^{*2} | | ✓ | page 94 |
| | Web Language | Web Language ^{*2} | ✓ | ✓ | page 95 |
| User Password Settings | User Password | Current Password | ✓ | ✓ | page 97 |
| | | New Password ^{*2} | ✓ | ✓ | page 97 |
| | | Confirm New Password | ✓ | ✓ | page 97 |
| Admin Password Settings | Admin Password | Current Password | | ✓ | page 98 |
| | | New Password ^{*2} | | ✓ | page 98 |
| | | Confirm New Password | | ✓ | page 98 |

| Menu Item | Section Title | Setting | Access Level ^{*1} | | Ref. |
|---------------------------|---------------------------------------------------------------|-----------------------------------------------|----------------------------|---|----------|
| | | | U | A | |
| Time Adjust Settings | Synchronization | Server Address ^{*2} | | ✓ | page 99 |
| | | Synchronization Interval ^{*2} | | ✓ | page 99 |
| | Time Zone | Time Zone ^{*2} | | ✓ | page 99 |
| | Daylight Saving Time (Summer Time) | Enable DST (Enable Summer Time) ^{*2} | | ✓ | page 99 |
| | | DST Offset (Summer Time Offset) ^{*2} | | ✓ | page 100 |
| | Start Day and Time of DST (Start Day and Time of Summer Time) | Month ^{*2} | | ✓ | page 100 |
| | | Day of Week | | ✓ | page 100 |
| | | Time ^{*2} | | ✓ | page 101 |
| | End Day and Time of DST (End Day and Time of Summer Time) | Month ^{*2} | | ✓ | page 101 |
| | | Day of Week | | ✓ | page 102 |
| | | Time ^{*2} | | ✓ | page 103 |
| Handset Basic Settings | Handset 1-16 | Handset Name ^{*3} | ✓ | ✓ | page 103 |
| | | Language ^{*2} | ✓ | ✓ | page 104 |
| Handset Advanced Settings | Soft Key during IDLE Status -TPA60/65 | Soft Key A (Left) ^{*2} | | ✓ | page 104 |
| | | Soft Key B (Center) ^{*2} | | ✓ | page 105 |
| | | Soft Key C (Right) ^{*2} | | ✓ | page 105 |
| | Soft Key during IDLE Status -TPA70/73 | Soft Key A (Left) ^{*2} | | ✓ | page 106 |
| | | Soft Key B (Center) ^{*2} | | ✓ | page 106 |
| | | Soft Key C (Right) ^{*2} | | ✓ | page 107 |
| | Handset 1-16 | Enable Admin Ability ^{*2} | | ✓ | page 107 |
| | | Enable Handset Lock ^{*2} | | ✓ | page 108 |
| | | Password for Unlocking ^{*2} | | ✓ | page 108 |
| | | Missed Call Notification | — | — | — |
| | | - Message ^{*3} | | ✓ | page 108 |
| | | - LED ^{*3} | | ✓ | page 108 |
| | | Voice Message Notification | — | — | — |
| | | - Message ^{*3} | | ✓ | page 109 |
| | | - LED ^{*3} | | ✓ | page 109 |
| | | - Alarm ^{*3} | | ✓ | page 109 |
| | | Shortcut Key Function ^{*3} | | ✓ | page 109 |

3.1 Web User Interface Setting List

| Menu Item | Section Title | Setting | Access Level ^{*1} | | Ref. |
|------------------------|-----------------------------|------------------------------------|----------------------------|---|----------|
| | | | U | A | |
| Parallel Mode Settings | Parallel Mode | Master Desk Phone Number 1-16 | — | — | — |
| | | Slave Handset Number ^{*3} | | ✓ | page 110 |
| | | Mode ^{*3} | | ✓ | page 110 |
| Delete Handset | Delete Handset Registration | Handset | — | — | — |
| | | Registration Number 1-16 | | ✓ | page 111 |

^{*1} The access levels are abbreviated as follows:

U: User; A: Administrator

A check mark indicates that the setting is available for that access level.

^{*2} This setting can also be configured through configuration file programming.

^{*3} This setting can also be configured through other programming methods (phone user interface programming or configuration file programming).

VoIP

| Menu Item | Section Title | Setting | Access Level ^{*1} | | Ref. |
|---------------------------------|---------------|---------------------------------------------|----------------------------|---|----------|
| | | | U | A | |
| SIP Settings | User Agent | User Agent ^{*2} | | ✓ | page 112 |
| | | Enable Rport (RFC 3581) ^{*2} | | ✓ | page 112 |
| | NAT Identity | Enable Port Punching for SIP ^{*2} | | ✓ | page 112 |
| | | Enable Port Punching for RTP ^{*2} | | ✓ | page 113 |
| | Advanced | TLS Port Random ^{*2} | | ✓ | page 113 |
| | | UDP Port Random ^{*2} | | ✓ | page 113 |
| SIP Settings [Line 1]–[Line 16] | Basic | Phone Number ^{*2} | | ✓ | page 114 |
| | | Registrar Server Address ^{*2} | | ✓ | page 114 |
| | | Registrar Server Port ^{*2} | | ✓ | page 114 |
| | | Proxy Server Address ^{*2} | | ✓ | page 115 |
| | | Proxy Server Port ^{*2} | | ✓ | page 115 |
| | | Presence Server Address ^{*2} | | ✓ | page 115 |
| | | Presence Server Port ^{*2} | | ✓ | page 115 |
| | | Outbound Proxy Server Address ^{*2} | | ✓ | page 115 |
| | | Outbound Proxy Server Port ^{*2} | | ✓ | page 115 |
| | | Service Domain ^{*2} | | ✓ | page 116 |
| | | Authentication ID ^{*2} | | ✓ | page 116 |

| Menu Item | Section Title | Setting | Access Level ^{*1} | | Ref. |
|---------------|----------------------|-----------------------------------------------|----------------------------|---|----------|
| | | | U | A | |
| Advanced | | Authentication Password ^{*2} | | ✓ | page 116 |
| | | SIP Packet QoS (DSCP) ^{*2} | | ✓ | page 116 |
| | | Enable DNS SRV lookup ^{*2} | | ✓ | page 116 |
| | | SRV lookup Prefix for UDP ^{*2} | | ✓ | page 117 |
| | | SRV lookup Prefix for TCP ^{*2} | | ✓ | page 117 |
| | | SRV lookup Prefix for TLS ^{*2} | | ✓ | page 117 |
| | | Local SIP Port ^{*2} | | ✓ | page 117 |
| | | SIP URI ^{*2} | | ✓ | page 118 |
| | | T1 Timer ^{*2} | | ✓ | page 118 |
| | | T2 Timer ^{*2} | | ✓ | page 119 |
| | | REGISTER Expires Timer ^{*2} | | ✓ | page 119 |
| | | Enable Session Timer (RFC 4028) ^{*2} | | ✓ | page 119 |
| | | Session Timer Method ^{*2} | | ✓ | page 119 |
| | | Enable 100rel (RFC 3262) ^{*2} | | ✓ | page 120 |
| VoIP Settings | RTP | RTP Packet Time ^{*2} | | ✓ | page 121 |
| | | Minimum RTP Port Number ^{*2} | | ✓ | page 122 |
| | | Maximum RTP Port Number ^{*2} | | ✓ | page 122 |
| | | Telephone-event Payload Type ^{*2} | | ✓ | page 122 |
| | Voice Quality Report | Server Address ^{*2} | | ✓ | page 122 |
| | | Port ^{*2} | | ✓ | page 122 |
| | | Enable PUBLISH ^{*2} | | ✓ | page 123 |
| | | Alert Report Trigger ^{*2} | | ✓ | page 123 |

3.1 Web User Interface Setting List

| Menu Item | Section Title | Setting | Access Level ^{*1} | | Ref. |
|-------------------------------------|---------------|-----------------------------------------------------|----------------------------|---|----------|
| | | | U | A | |
| VoIP Settings [Line 1]–[Line 16] | Basic | G.722 ^{*3} | — | — | — |
| | | - Enable ^{*2*3} | | ✓ | page 124 |
| | | - Priority ^{*2*3} | | ✓ | page 124 |
| | | PCMA | — | — | — |
| | | - Enable ^{*2} | | ✓ | page 125 |
| | | - Priority ^{*2} | | ✓ | page 125 |
| | | G.729A | — | — | — |
| | | - Enable ^{*2} | | ✓ | page 125 |
| | | - Priority ^{*2} | | ✓ | page 125 |
| | | PCMU | — | — | — |
| | | - Enable ^{*2} | | ✓ | page 125 |
| | | - Priority ^{*2} | | ✓ | page 125 |
| | | Opus | — | — | — |
| | | - Enable ^{*2} | | ✓ | page 126 |
| | | - Priority ^{*2} | | ✓ | page 126 |
| | Advanced | DTMF Type | | ✓ | page 126 |
| | | RTP Packet QoS (DSCP) ^{*2} | | ✓ | page 126 |
| | | RTCP Packet QoS (DSCP) ^{*2} | | ✓ | page 126 |
| | Advanced | Enable RTCP ^{*2} | | ✓ | page 127 |
| | | Enable RTCP-XR ^{*2} | | ✓ | page 127 |
| | | RTCP&RTCP-XR Interval ^{*2} | | ✓ | page 127 |
| | | SRTP Mode ^{*2} | | ✓ | page 127 |
| | | Enable Mixed SRTP & RTP by Conference ^{*2} | | ✓ | page 128 |
| | | Enable Mixed SRTP & RTP by Transfer ^{*2} | | ✓ | page 128 |

^{*1} The access levels are abbreviated as follows:

U: User; A: Administrator

A check mark indicates that the setting is available for that access level.

^{*2} This setting can also be configured through configuration file programming.

^{*3} This setting is not displayed by default.

Telephone

| Menu Item | Section Title | Setting | Access Level ¹⁾ | | Ref. |
|---------------------------------|---------------------------------------------------|---------------------------------------------------|----------------------------|----------|----------|
| | | | U | A | |
| Multi Number Settings | Group Handset / Handset select for receiving call | Line 1-16 ²⁾ | ✓ | ✓ | page 129 |
| | | Phone Number | ✓ | ✓ | page 129 |
| | | Handset Number 1-16 | ✓ | ✓ | page 129 |
| | | Paging ³⁾ | ✓ | ✓ | page 130 |
| | Handset and Line Number select for making call | Handset 1-16 | ✓ | ✓ | page 130 |
| | | Line Number 1-16 ²⁾ | ✓ | ✓ | page 130 |
| | | Default ²⁾ | ✓ | ✓ | page 130 |
| Call Control | Call Control | Send SUBSCRIBE to Voice Mail Server ³⁾ | | ✓ | page 131 |
| | | Conference Server URI ³⁾ | | ✓ | page 131 |
| | | First-digit Timeout ³⁾ | | ✓ | page 132 |
| | | Inter-digit Timeout ³⁾ | | ✓ | page 132 |
| | | Timer for Dial Plan ³⁾ | | ✓ | page 132 |
| | | Enable # Key as delimiter ³⁾ | | ✓ | page 132 |
| | | International Call Prefix ³⁾ | | ✓ | page 132 |
| | | Country Calling Code ³⁾ | | ✓ | page 132 |
| | | National Access Code ³⁾ | | ✓ | page 133 |
| | | Call Park Number ³⁾ | | ✓ | page 133 |
| | | Enable Call Park Key ³⁾ | | ✓ | page 133 |
| | | Park Retrieve Number ³⁾ | | ✓ | page 133 |
| | | Park Retrieve Soft Key ³⁾ | | ✓ | page 133 |
| | | Group Call Pickup ³⁾ | | ✓ | page 134 |
| | Emergency Call Phone Numbers | 1-5 ³⁾ | | ✓ | page 134 |
| Call Control [Line 1]–[Line 16] | | Display Name ³⁾ | | ✓ | page 135 |
| Call Features | Voice Mail Access Number ³⁾ | | ✓ | page 135 | |
| | Enable Anonymous Call ²⁾ | | ✓ | page 135 | |
| | Enable Block Anonymous Call ²⁾ | | ✓ | page 136 | |
| | Enable Do Not Disturb ²⁾ | | ✓ | page 136 | |
| | Enable Call Waiting ³⁾ | | ✓ | page 136 | |
| | Enable Call Forwarding Always ²⁾ | | ✓ | page 136 | |

3.1 Web User Interface Setting List

| Menu Item | Section Title | Setting | Access Level ^{*1} | | Ref. |
|-----------|------------------|-----------------------------------------------------|----------------------------|---|----------|
| | | | U | A | |
| | | Forwarding Number (Always) ^{*2} | | ✓ | page 136 |
| | | Enable Call Forwarding Busy ^{*2} | | ✓ | page 137 |
| | | Forwarding Number (Busy) ^{*2} | | ✓ | page 137 |
| | | Enable Call Forwarding No Answer ^{*2} | | ✓ | page 137 |
| | | Forwarding Number (No Answer) ^{*2} | | ✓ | page 137 |
| | | Ring Counts (No Answer) ^{*2} | | ✓ | page 137 |
| | | Enable Shared Call ^{*3} | | ✓ | page 137 |
| | | Enable Key Synchronization ^{*3} | | ✓ | page 138 |
| | | Enable Call Park Notification ^{*3} | | ✓ | page 138 |
| | | Enable Click to Call ^{*3} | | ✓ | page 138 |
| | | MoH Server URI ^{*3} | | ✓ | page 138 |
| | Dial Plan | Dial Plan (max 1000 columns) ^{*3} | | ✓ | page 139 |
| | | Call Even If Dial Plan Does Not Match ^{*3} | | ✓ | page 139 |
| | | Call Rejection Phone Numbers | 1–20 ^{*2} | ✓ | page 139 |
| | Hotline Settings | Hotline | Handset 1–16 | — | — |
| | | - Enable ^{*3} | | ✓ | page 140 |
| | | - Hotline Number ^{*3} | ✓ | ✓ | page 140 |
| | | Hotline Delay ^{*3} | | ✓ | page 140 |

| Menu Item | Section Title | Setting | Access Level ^{*1} | | Ref. |
|------------------------------------|------------------|----------------------------|----------------------------|---|----------|
| | | | U | A | |
| Tone Settings | Dial Tone | Tone Frequencies | | ✓ | page 141 |
| | | Tone Timings ^{*3} | | ✓ | page 141 |
| | Busy Tone | Tone Frequencies | | ✓ | page 142 |
| | | Tone Timings ^{*3} | | ✓ | page 142 |
| | Ringing Tone | Tone Frequencies | | ✓ | page 142 |
| | | Tone Timings ^{*3} | | ✓ | page 143 |
| | Stutter Tone | Tone Frequencies | | ✓ | page 143 |
| | | Tone Timings ^{*3} | | ✓ | page 143 |
| | Reorder Tone | Tone Frequencies | | ✓ | page 144 |
| | | Tone Timings ^{*3} | | ✓ | page 144 |
| Import Phonebook | Import Phonebook | Handset Number | ✓ | ✓ | page 145 |
| | | File Name | ✓ | ✓ | page 145 |
| Export Phonebook | Export Phonebook | Handset Number | ✓ | ✓ | page 146 |
| Flexible Key Settings for KX-TPA68 | Handset 1–16 | No.1–12 | — | — | page 147 |
| | | Type ^{*3} | ✓ | ✓ | page 147 |
| | | Parameter ^{*3} | ✓ | ✓ | page 148 |
| | | Label Name ^{*3} | ✓ | ✓ | page 148 |

^{*1} The access levels are abbreviated as follows:

U: User; A: Administrator

A check mark indicates that the setting is available for that access level.

^{*2} This setting can also be configured through other programming methods (phone user interface programming or configuration file programming).^{*3} This setting can also be configured through configuration file programming.

Maintenance

| Menu Item | Section Title | Setting | Access Level ^{*1} | | Ref. |
|--------------------------|--------------------------|---------------------------------------------|----------------------------|---|----------|
| | | | U | A | |
| Provisioning Maintenance | Provisioning Maintenance | Standard File URL ^{*2} | | ✓ | page 149 |
| | | Product File URL ^{*2} | | ✓ | page 149 |
| | | Master File URL ^{*2} | | ✓ | page 149 |
| | | Cyclic Auto Resync ^{*2} | | ✓ | page 150 |
| | | Resync Interval ^{*2} | | ✓ | page 150 |
| | | Time Resync ^{*2} | | ✓ | page 150 |
| | | Header Value for Resync Event ^{*2} | | ✓ | page 150 |

3.2 Status

| Menu Item | Section Title | Setting | Access Level ^{*1} | | Ref. |
|------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---|----------|
| | | | U | A | |
| Firmware Maintenance | Firmware Maintenance | Enable Firmware Update ^{*2} | | ✓ | page 151 |
| | | Firmware File URL ^{*2} | | ✓ | page 151 |
| Upgrade Firmware | Upgrade Firmware | File Name | | ✓ | page 151 |
| Import Wallpaper | TPA60/65 | Gradation Type | | ✓ | page 152 |
| | | File Name | | ✓ | page 153 |
| | TPA68 | File Name | | ✓ | page 153 |
| | TPA70/73 | Gradation Type | | ✓ | page 153 |
| | | File Name | | ✓ | page 153 |
| Export Logging File | Export Logging File | Logging File Type | | ✓ | page 154 |
| Reset to Defaults | Reset to Carrier Defaults | The following settings will be reset to carrier default values when you click [Reset to Carrier Defaults] . | | ✓ | page 154 |
| Restart | Restart | Click [Restart] to proceed. Restarting will take a few moments. | | ✓ | page 155 |
| | Restart (Graceful) | Click [Restart (Graceful)] to proceed. Restart takes place when phone status is idle. If it is busy, phone waits to become idle then restarts. Restarting will take a few moments. | | ✓ | page 155 |
| DECT Monitoring | Handset Status | Displays the results of DECT monitoring. | | ✓ | page 156 |
| Call Status Monitoring | Call Status Monitoring | Displays the status of each handset. | | ✓ | page 156 |

^{*1} The access levels are abbreviated as follows:

U: User; A: Administrator

A check mark indicates that the setting is available for that access level.

^{*2} This setting can also be configured through configuration file programming.

3.2 Status

This section provides detailed descriptions about all the settings classified under the **[Status]** tab.

3.2.1 Version Information

This screen allows you to view the current version information such as the model number and the firmware version of the unit.

| Base Unit | |
|------------------|--------------------------------|
| Model | KX-TGP700 |
| Operating Bank | Bank2 |
| IPL Version | 00.018 [SIP: 2.10] |
| Firmware Version | Bank1: 00.201 Bank2: 00.203 |

| Handset | |
|------------------|-----------|
| Model | KX-UDT121 |
| Firmware Version | 99.01.008 |
| Model | KX-UDT131 |
| Firmware Version | 99.01.008 |
| Model | KX-TPA60 |
| Firmware Version | 99.12.001 |
| Model | KX-TPA65 |
| Firmware Version | 99.02.004 |
| Model | KX-TPA68 |

3.2.1.1 Base Unit

Model

| | |
|--------------------|----------------------------------------------------------|
| Description | Indicates the model number of the unit (reference only). |
| Value Range | Model number |

Operating Bank

| | |
|--------------------|------------------------------------------------------------------------------------------|
| Description | Indicates the storage area of the firmware that is currently operating (reference only). |
| Value Range | <ul style="list-style-type: none"> • Bank1 • Bank2 |

IPL Version

| | |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Indicates the version of the IPL (Initial Program Load) that runs when starting the unit and the SIP software version of the unit (reference only). |
| Value Range | IPL version ("nn.nnn" [n=0–9]) SIP software version ("[SIP: n.nn]" [n=0–9]) |

Firmware Version

| | |
|--------------------|-------------------------------------------------------------------------------------------------|
| Description | Indicates the version of the firmware that is currently installed on the unit (reference only). |
| Value Range | Bank1 (Bank2): Firmware version ("nn.nnn" [n=0–9]) |

3.2.1.2 Handset

Model

| | |
|--------------------|-------------------------------------------------------------|
| Description | Indicates the model number of the handset (reference only). |
|--------------------|-------------------------------------------------------------|

3.2.2 Handset Information

| | |
|--------------------|--------------|
| Value Range | Model number |
|--------------------|--------------|

Firmware Version

| | |
|--------------------|----------------------------------------------------------------------------------------------------|
| Description | Indicates the version of the firmware that is currently installed on the Handset (reference only). |
| Value Range | Model Name Firmware version ("nn.nnn" [n=0–9]) |

3.2.2 Handset Information

This screen allows you to view the current version information such as the model number and the firmware of the Linked Handset.

| Handset | Model | Firmware Version |
|---------|----------|------------------|
| 1 | KX-TPA60 | 03.04.000 |
| 2 | KX-TPA60 | 99.12.001 |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

3.2.2.1 Handset Information

Handset 1-16

Model

| | |
|--------------------|-------------------------------------------------------------|
| Description | Indicates the model number of the handset (reference only). |
| Value Range | Model number |

Firmware Version

| | |
|--------------------|----------------------------------------------------------------------------------------------------|
| Description | Indicates the version of the firmware that is currently installed on the Handset (reference only). |
| Value Range | nn.nn.nnn |

3.2.3 Network Status

This screen allows you to view the current network information of the unit, such as the MAC address, IP address, Ethernet port status, etc.

Clicking **[Refresh]** updates the information displayed on the screen.

| Network Common | |
|----------------------|--------------|
| MAC Address | 4C364E74A699 |
| Ethernet Link Status | Connected |
| IP Address Mode | IPv4 |

| IPv4 | |
|-----------------|---------------|
| Connection Mode | Static |
| IP Address | 192.168.0.100 |
| Subnet Mask | 255.255.255.0 |
| Default Gateway | |
| DNS1 | |
| DNS2 | |

| IPv6 | |
|-----------------|------|
| Connection Mode | DHCP |
| IP Address | |
| Prefix | |
| Default Gateway | |

3.2.3.1 Network Common

MAC Address

| | |
|-------------|---------------------------------------------------------|
| Description | Indicates the MAC address of the unit (reference only). |
| Value Range | Not applicable. |

Ethernet Link Status

| | |
|-------------|------------------------------------------------------------------------------------|
| Description | Indicates the current connection status of the Ethernet LAN port (reference only). |
| Value Range | Connected |

IP Address Mode

| | |
|-------------|---------------------------------------------------------------------------------------------------|
| Description | Indicates the current IP Address Mode. |
| Value Range | <ul style="list-style-type: none"> • IPv4 • IPv6 • IPv4&IPv6 |

3.2.3.2 IPv4

Connection Mode

| | |
|-------------|----------------------------------------------------------------------------------------------------------------------|
| Description | Indicates whether the IP address of the unit is assigned automatically (DHCP) or manually (static) (reference only). |
| Value Range | <ul style="list-style-type: none"> • DHCP • Static |

3.2.3 Network Status

IP Address

| | |
|-------------|---------------------------------------------------------------------------|
| Description | Indicates the currently assigned IP address of the unit (reference only). |
| Value Range | IP address |

Subnet Mask

| | |
|-------------|--------------------------------------------------------------------|
| Description | Indicates the specified subnet mask for the unit (reference only). |
| Value Range | Subnet mask |

Default Gateway

| | |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Indicates the specified IP address of the default gateway for the network (reference only). |
| | Note <ul style="list-style-type: none">If the default gateway address is not specified, this field will be left blank. |
| Value Range | IP address of the default gateway |

DNS1

| | |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Indicates the specified IP address of the primary DNS server (reference only). |
| | Note <ul style="list-style-type: none">If the primary DNS server address is not specified, this field will be left blank. |
| Value Range | IP address of the primary DNS server |

DNS2

| | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Indicates the specified IP address of the secondary DNS server (reference only). |
| | Note <ul style="list-style-type: none">If the secondary DNS server address is not specified, this field will be left blank. |
| Value Range | IP address of the secondary DNS server |

3.2.3.3 IPv6

Connection Mode

| | |
|-------------|----------------------------------------------------------------------------------------------------------------------|
| Description | Indicates whether the IP address of the unit is assigned automatically (DHCP) or manually (static) (reference only). |
| Value Range | <ul style="list-style-type: none">StaticDHCPStateless Autoconfiguration (RA) |

IP Address

| | |
|--------------------|---------------------------------------------------------------------------|
| Description | Indicates the currently assigned IP address of the unit (reference only). |
| Value Range | IP address |

Prefix

| | |
|--------------------|--------------------------------|
| Description | Indicates the prefix for IPv6. |
| Value Range | 0–128 |

Default Gateway

| | |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Description | Indicates the specified IP address of the default gateway for the network (reference only). |
| Note | <ul style="list-style-type: none"> If the default gateway address is not specified, this field will be left blank. |
| Value Range | IP address of the default gateway |

DNS1

| | |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Description | Indicates the specified IP address of the primary DNS server (reference only). |
| Note | <ul style="list-style-type: none"> If the primary DNS server address is not specified, this field will be left blank. |
| Value Range | IP address of the primary DNS server |

DNS2

| | |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Description | Indicates the specified IP address of the secondary DNS server (reference only). |
| Note | <ul style="list-style-type: none"> If the secondary DNS server address is not specified, this field will be left blank. |
| Value Range | IP address of the secondary DNS server |

3.2.3.4 VLAN

Setting Mode

| | |
|--------------------|--------------------------------------------------------|
| Description | Indicates the specified VLAN feature (reference only). |
|--------------------|--------------------------------------------------------|

3.2.4 VoIP Status

| | |
|--------------------|----------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• Disable• LLDP• CDP• LLDP/CDP• Manual |
|--------------------|----------------------------------------------------------------------------------------------------------------------------|

VLAN ID

| | |
|--------------------|-----------------------------------------|
| Description | Indicates the VLAN ID (reference only). |
| Value Range | 0–4094 |

VLAN Priority

| | |
|--------------------|-------------------------------------------------|
| Description | Indicates the priority number (reference only). |
| Value Range | 0–7 |

3.2.4 VoIP Status

This screen allows you to view the current VoIP status of each line's unit.
Clicking [Refresh] updates the information displayed on the screen.

| Line No. | Phone Number | VoIP Status |
|----------|--------------|-------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

3.2.4.1 VoIP Status

Line No. 1–16

Phone Number

| | |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Indicates the currently assigned phone numbers (reference only). |
| Note | <ul style="list-style-type: none">• The corresponding field is blank if a line has not yet been leased or if the unit has not been configured. |
| Value Range | Max. 32 digits |

VoIP Status

| | |
|--------------------|------------------------------------------------------------------|
| Description | Indicates the current VoIP status of each line (reference only). |
|--------------------|------------------------------------------------------------------|

| |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Value Range</p> <ul style="list-style-type: none"> Registered: The unit has been registered to the SIP server, and the line can be used. Registering: The unit is being registered to the SIP server, and the line cannot be used. Blank: The line has not been leased, the unit has not been configured yet, or a SIP authentication failure has occurred. <p>Note</p> <ul style="list-style-type: none"> Immediately after starting up the unit, the phone numbers of the lines will be displayed, but the status of the line may not be displayed because the unit is still being registered to the SIP server. To display the status, wait about 30 to 60 seconds, and then click [Refresh] to obtain updated status information. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

3.3 Network

This section provides detailed descriptions about all the settings classified under the **[Network]** tab.

3.3.1 Basic Network Settings

This screen allows you to change basic network settings such as whether to use a DHCP server, and the IP address of the unit.

Note

- Changes to the settings on this screen are applied when the message "Complete" appears after clicking **[Save]**. Because the IP address of the unit will probably be changed if you change these settings, you will not be able to continue using the Web user interface. To continue configuring the unit from the Web user interface, log in to the Web user interface again after confirming the newly assigned IP address of the unit using the phone user interface. In addition, if the IP address of the PC from which you try to access the Web user interface has been changed, close the Web port once by selecting **Off** for **Embedded Web** on the unit (→ see **Opening/Closing the Web Port** in **1.1.6.3 Before Accessing the Web User Interface**).

Panasonic

KX-TGP700

Status | **Network** | System | VoIP | Telephone | Maintenance

Logout | Web Port Close

Network

- Basic Network Settings** (selected)
- Ethernet Port Settings
- HTTP Client Settings
- STUN Settings
- Multicast Paging Settings
- LDAP Settings
- Server Common
- Server 1
- Server 2
- Server 3
- Server 4
- Server 5
- Server 6
- Server 7

Basic Network Settings

IP Addressing Mode

IP Addressing Mode IPv4 IPv6 IPv4 & IPv6

IPv4

| | |
|-------------------|--------------------------------------------------------------------|
| Connection Mode | <input type="radio"/> DHCP <input checked="" type="radio"/> Static |
| DHCP Host Name | (MODEL) |
| IP Address | 192.168.0.100 |
| Subnet Mask | 255.255.255.0 |
| Default Gateway | |
| Auto DNS via DHCP | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| DNS1 | |
| DNS2 | |

IPv6

| | |
|-----------------|----------------------------------------------------------------------------------------------------------------------|
| Connection Mode | <input checked="" type="radio"/> DHCP <input type="radio"/> Static <input type="radio"/> Stateless Autoconfiguration |
| IP Address | |

3.3.1 Basic Network Settings

3.3.1.1 IP Addressing Mode

IP Addressing Mode

| | |
|------------------------------|-----------------------------------------------------------------------------------------------|
| Description | Selects the IP addressing mode. |
| Value Range | <ul style="list-style-type: none">• IPv4• IPv6• IPv4&IPv6 |
| Default Value | IPv4 |
| Configuration File Reference | IP_ADDR_MODE |

3.3.1.2 IPv4

Connection Mode

| | |
|------------------------------|-------------------------------------------------------------------------|
| Description | Selects the IP address setting mode for IPv4. |
| Value Range | <ul style="list-style-type: none">• Static• DHCP |
| Default Value | DHCP |
| Configuration File Reference | CONNECTION_TYPE |

DHCP Host Name

| | |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the host name to option12 in DHCPv4 or option15 in DHCPv6. Note <ul style="list-style-type: none">• This setting is available only when [Connection Mode] is set to [DHCP]. |
| Value Range | Max. 64 characters (except ", &, ', <, >, .., and space) Note <ul style="list-style-type: none">• If "{MODEL}" is included in this parameter, it will be replaced with the unit's model name.• If "{MAC}" is included in this parameter, it will be replaced with the device's MAC address in uppercase letters.• If "{mac}" is included in this parameter, it will be replaced with the device's MAC address in lowercase letters. |
| Default Value | {MODEL} |
| Configuration File Reference | DHCP_HOST_NAME |

IP Address

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the IP address for IPv4. |
| Note | <ul style="list-style-type: none"> This setting is available only when [Connection Mode] is set to [Static]. |
| Value Range | Max. 15 characters n.n.n.n [n=0–255] |
| Default Value | Not stored. |
| Configuration File Reference | STATIC_IP_ADDRESS |

Subnet Mask

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the subnet mask for IPv4. |
| Note | <ul style="list-style-type: none"> This setting is available only when [Connection Mode] is set to [Static]. |
| Value Range | Max. 15 characters n.n.n.n [n=0–255] |
| Default Value | Not stored. |
| Configuration File Reference | STATIC_SUBNET |

Default Gateway

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the default gateway for IPv4. |
| Note | <ul style="list-style-type: none"> This setting is available only when [Connection Mode] is set to [Static]. |
| Value Range | Max. 15 characters n.n.n.n [n=0–255] |
| Default Value | Not stored. |
| Configuration File Reference | STATIC_GATEWAY |

Auto DNS via DHCP

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to enable or disable the DNS server obtained by DHCPv4. |
| Note | <ul style="list-style-type: none"> This setting is available only when [Connection Mode] is set to [DHCP]. |
| Value Range | <ul style="list-style-type: none"> Yes: Use DNS obtained by DHCPv4 No: Not use (use static DNS) |
| Default Value | Yes |

3.3.1 Basic Network Settings

| | |
|------------------------------|-----------------|
| Configuration File Reference | DHCP_DNS_ENABLE |
|------------------------------|-----------------|

DNS1

| | |
|------------------------------|----------------------------------------------------------|
| Description | Specifies the IP address of primary DNS server for IPv4. |
| Value Range | Max. 15 characters n.n.n.n [n=0–255] |
| Default Value | Not stored. |
| Configuration File Reference | USER_DNS1_ADDR |

DNS2

| | |
|------------------------------|----------------------------------------------------------|
| Description | Specifies the IP address of primary DNS server for IPv4. |
| Value Range | Max. 15 characters n.n.n.n [n=0–255] |
| Default Value | Not stored. |
| Configuration File Reference | USER_DNS2_ADDR |

3.3.1.3 IPv6

Connection Mode

| | |
|------------------------------|---------------------------------------------------------------------------------------------------------------|
| Description | Selects the IP address setting mode for IPv6. |
| Value Range | <ul style="list-style-type: none">• Static• DHCP• Stateless Autoconfiguration |
| Default Value | DHCP |
| Configuration File Reference | CONNECTION_TYPE_IPV6 |

IP Address

| | |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the IP address for IPv6. Note <ul style="list-style-type: none">• This setting is available only when [Connection Mode] is set to [Static]. |
| Value Range | Max. 39 characters n:n:n:n:n:n:n:n [n=0–FFFF, abbreviation available] |
| Default Value | Not stored. |
| Configuration File Reference | STATIC_IP_ADDRESS_IPV6 |

Prefix

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the prefix for IPv6. |
| Note | <ul style="list-style-type: none"> This setting is available only when [Connection Mode] is set to [Static]. |
| Value Range | 0–128 |
| Default Value | 64 |
| Configuration File Reference | PREFIX_IPV6 |

Default Gateway

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the default gateway for IPv6. |
| Note | <ul style="list-style-type: none"> This setting is available only when [Connection Mode] is set to [Static]. |
| Value Range | Max. 39 characters n:n:n:n:n:n:n:n [n=0xFFFF, abbreviation available] |
| Default Value | Not stored. |
| Configuration File Reference | STATIC_GATEWAY_IPV6 |

Auto DNS via DHCP

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to enable or disable the DNS server obtained by DHCPv6. |
| Note | <ul style="list-style-type: none"> This setting is available only when [Connection Mode] is set to [DHCP]. |
| Value Range | <ul style="list-style-type: none"> Yes: Use DNS obtained by DHCPv6 No: Not use (use static DNS) |
| Default Value | Yes |
| Configuration File Reference | DHCP_DNS_ENABLE_IPV6 |

DNS1

| | |
|-------------------------------------|--------------------------------------------------------------------------|
| Description | Specifies the IP address of primary DNS server for IPv6. |
| Value Range | Max. 39 characters n:n:n:n:n:n:n:n [n=0xFFFF, abbreviation available] |
| Default Value | Not stored. |
| Configuration File Reference | USER_DNS1_ADDR_IPV6 |

DNS2

| | |
|--------------------|------------------------------------------------------------|
| Description | Specifies the IP address of secondary DNS server for IPv6. |
|--------------------|------------------------------------------------------------|

3.3.2 Ethernet Port Settings

| | |
|-------------------------------------|--------------------------------------------------------------------------|
| Value Range | Max. 39 characters n:n:n:n:n:n:n:n [n=0-FFFF, abbreviation available] |
| Default Value | Not stored. |
| Configuration File Reference | USER_DNS2_ADDR_IPV6 |

3.3.2 Ethernet Port Settings

This screen allows you to change the connection mode of the Ethernet ports, LLDP and the VLAN settings.

Note

- When you change the settings on this screen and click [**Save**], after the message "Complete" has been displayed, the unit will restart automatically with the new settings applied. If a unit is on a call when "Complete" has been displayed, the unit will restart after the unit returns to idle.

Panasonic

KX-TGP700 Status Network System VoIP Telephone Maintenance

Ethernet Port Settings

Logout Web Port Close

Network

Basic Network Settings

Ethernet Port Settings

HTTP Client Settings

STUN Settings

Multicast Paging Settings

LDAP Settings

- Server Common

- Server 1

- Server 2

- Server 3

- Server 4

- Server 5

- Server 6

- Server 7

Link Speed/Duplex Mode

LAN Port Auto Negotiation

LLDP

Enable LLDP Yes

Packet Interval 30 seconds [1-3600]

CDP

Enable CDP No

Packet Interval 30 seconds [1-3600]

VLAN

Enable VLAN Yes

VLAN ID 2 [0-4094]

Priority 7

The phone reboots automatically if you change the settings on this screen.

Save Cancel

3.3.2.1 Link Speed/Duplex Mode

LAN Port

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects the connection mode (link speed and duplex mode) of the LAN port. |
| Value Range | <ul style="list-style-type: none">Auto Negotiation100Mbps/Full Duplex100Mbps/Half Duplex10Mbps/Full Duplex10Mbps/Half Duplex |
| Default Value | Auto Negotiation |
| Configuration File Reference | PHY_MODE_LAN |

3.3.2.2 LLDP

Enable LLDP

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to enable or disable the LLDP-MED feature. |
| Note | <ul style="list-style-type: none"> You should specify "Yes" for only one of "Enable LLDP", or "Enable VLAN". If "Yes" is specified for two or more of the parameters above, the settings are prioritized as follows: "Enable VLAN" > "Enable LLDP". Therefore, if "Yes" is specified for both "Enable VLAN" and "Enable LLDP", the VLAN-related settings are used. |
| Value Range | <ul style="list-style-type: none"> Yes No |
| Default Value | Yes |
| Configuration File Reference | LLDP_ENABLE |

Packet Interval

| | |
|-------------------------------------|----------------------------------------------------------------------|
| Description | Specifies the interval, in seconds, between sending each LLDP frame. |
| Value Range | 1-3600 |
| Default Value | 30 |
| Configuration File Reference | LLDP_INTERVAL |

3.3.2.3 CDP

Enable CDP

| | |
|-------------------------------------|-------------------------------------------------------------------|
| Description | Selects whether to enable the CDP feature. |
| Value Range | <ul style="list-style-type: none"> Yes No |
| Default Value | No |
| Configuration File Reference | CDP_ENABLE |

Packet Interval

| | |
|-------------------------------------|-----------------------------------------------------------------|
| Description | Specifies the interval, in seconds, between sending CDP frames. |
| Value Range | 1-3600 |
| Default Value | 30 |
| Configuration File Reference | CDP_INTERVAL |

3.3.2.4 VLAN

Enable VLAN

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to use the VLAN feature to perform VoIP communication securely. |
| Note | <ul style="list-style-type: none"> You should specify "Yes" for only one of "Enable LLDP", or "Enable VLAN". If "Yes" is specified for two or more of the parameters above, the settings are prioritized as follows: "Enable VLAN" > "Enable LLDP". Therefore, if "Yes" is specified for both "Enable VLAN" and "Enable LLDP", the VLAN-related settings are used. |
| Value Range | <ul style="list-style-type: none"> Yes No |
| Default Value | No |
| Configuration File Reference | VLAN_ENABLE |

VLAN ID

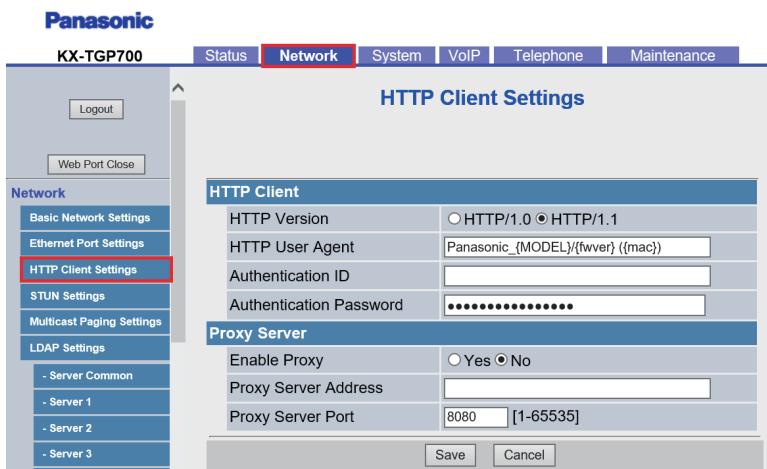
| | |
|-------------------------------------|------------------------|
| Description | Specifies the VLAN ID. |
| Value Range | 0–4094 |
| Default Value | 2 |
| Configuration File Reference | VLAN_ID_IP_PHONE |

Priority

| | |
|-------------------------------------|------------------------------|
| Description | Selects the priority number. |
| Value Range | 0–7 |
| Default Value | 7 |
| Configuration File Reference | VLAN_PRI_IP_PHONE |

3.3.3 HTTP Client Settings

This screen allows you to change the HTTP client settings for the unit in order to access the HTTP server of your phone system and download configuration files.



3.3.3.1 HTTP Client

HTTP Version

| | |
|-------------------------------------|----------------------------------------------------------------------------------|
| Description | Selects which version of the HTTP protocol to use for HTTP communication. |
| Value Range | <ul style="list-style-type: none"> • HTTP/1.0 • HTTP/1.1 |
| Default Value | HTTP/1.1 |
| Configuration File Reference | HTTP_VER |

HTTP User Agent

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the text string to send as the user agent in the header of HTTP requests. |
| Value Range | Max. 64 characters |
| Note | <ul style="list-style-type: none"> • If "{mac}" is included in this parameter, it will be replaced with the unit's MAC address in lower-case. • If "{MAC}" is included in this parameter, it will be replaced with the unit's MAC address in upper-case. • If "{MODEL}" is included in this parameter, it will be replaced with the unit's model name. • If "{fwver}" is included in this parameter, it will be replaced with the firmware version of the unit. |
| Default Value | Panasonic_{MODEL}/{fwver} ({mac}) |
| Configuration File Reference | HTTP_USER_AGENT |

Authentication ID

| | |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the ID for the User account. If set, this name must be entered to access the Web user interface at the User access level. |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|

3.3.4 STUN Settings

| | |
|-------------------------------------|---------------------|
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | HTTP_AUTH_ID |

Authentication Password

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the password for the User account. If set, this password must be entered to access the Web user interface at the User access level. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | HTTP_AUTH_PASS |

3.3.3.2 Proxy Server

Enable Proxy

| | |
|-------------------------------------|--------------------------------------------------------------------|
| Description | Selects whether to enable or disable the HTTP proxy feature. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | HTTP_PROXY_ENABLE |

Proxy Server Address

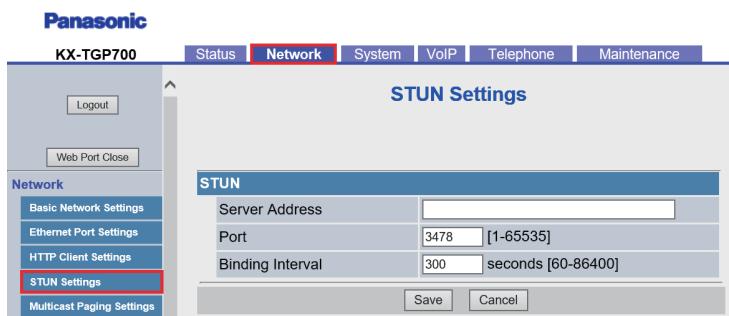
| | |
|-------------------------------------|-------------------------------------------------------|
| Description | Specifies the IP address or FQDN of the proxy server. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | HTTP_PROXY_ADDR |

Proxy Server Port

| | |
|-------------------------------------|------------------------------------------------|
| Description | Specifies the port number of the proxy server. |
| Value Range | 1–65535 |
| Default Value | 8080 |
| Configuration File Reference | HTTP_PROXY_PORT |

3.3.4 STUN Settings

This screen allows you to change the STUN Settings.



3.3.4.1 STUN

STUN: Simple Traversal of UDP through NATs

Server Address

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------|
| Description | Specifies the host name or IP address of the STUN server for the CPE to send Binding Requests. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | STUN_SERV_ADDR |

Port

| | |
|-------------------------------------|------------------------------------------------------------------------------------|
| Description | Specifies the port number of the STUN server for the CPE to send Binding Requests. |
| Value Range | 1–65535 |
| Default Value | 3478 |
| Configuration File Reference | STUN_SERV_PORT |

Binding Interval

| | |
|-------------------------------------|--------------------------------------------------------|
| Description | Specifies the interval of the sending binding request. |
| Value Range | 60–86400 |
| Default Value | 300 |
| Configuration File Reference | STUN_INTVL |

3.3.5 Multicast Paging Settings

This screen allows you to change the Multicast Paging Settings for each channel Group.

3.3.5 Multicast Paging Settings

The screenshot shows the Panasonic KX-TGP700 web interface. The top navigation bar includes Status, Network (which is highlighted in red), System, VoIP, Telephone, and Maintenance. On the left, a sidebar under the Network heading lists Basic Network Settings, Ethernet Port Settings, HTTP Client Settings, STUN Settings, Multicast Paging Settings (which is also highlighted in red), LDAP Settings, and several Server options (- Server Common, - Server 1 through - Server 6). The main content area is titled "Multicast Paging Settings". It contains two sections, "Group 5" and "Group 4". Each group has fields for IPv4 Address (224.0.0.0-239.255.255.255), IPv6 Address (FF00::/8), Port (0-65535, 0:Disable), and Label. There is also an "Enable Transmission" checkbox with options "Yes" and "No".

3.3.5.1 Multicast Paging

IPv4 Address (Group 1–5)

| | |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the address for multi-cast paging for each channel group. {Priority: Group 5 > Group 4 > Group 3, Group2, Group1 (depending on the configuration)} |
| Value Range | 224.0.0.0–239.255.255.255 |
| Default Value | Not stored. |
| Configuration File Reference | MPAGE_ADDRm |

IPv6 Address (Group 1–5)

| | |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the IPv6 address for multi-cast paging for each channel group. {Priority: Group 5 > Group 4 > Group 3, Group2, Group1 (depending on the configuration)} |
| Value Range | FF00::/8 |
| Default Value | Not stored. |
| Configuration File Reference | MPAGE_IPV6_ADDRm |

Port (Group 1–5)

| | |
|------------------------------|-------------------------------------------------------------------------|
| Description | Specifies the port number for multi-cast paging for each channel group. |
| Value Range | 0–65535 0: Disable |
| Default Value | 0 |
| Configuration File Reference | MPAGE_PORTm |

Priority (Group 1-3)

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects the priority of the low priority channel group. The priority of multi-cast paging group1-3 is lower than the talking. Priority 4 is higher than Priority 5. |
| Value Range | 4, 5 |
| Default Value | 5 |
| Configuration File Reference | MPAGE_PRIORITYm |

Label (Group 1-5)

| | |
|-------------------------------------|-------------------------------------------|
| Description | Specifies a label for each channel group. |
| Value Range | Max. 24 characters |
| Default Value | Not stored. |
| Configuration File Reference | MPAGE_LABELm |

Enable Transmission (Group 1-5)

| | |
|-------------------------------------|-----------------------------------------------------------------------|
| Description | Selects the sending multi-cast paging. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | No |
| Configuration File Reference | MPAGE_SEND_ENABLEm |

3.3.6 LDAP Settings

This screen allows you to change the LDAP Settings.

Panasonic
KX-TGP700

Status | Network | System | VoIP | Telephone | Maintenance

Logout | Web Port Close

Network

- Basic Network Settings
- Ethernet Port Settings
- HTTP Client Settings
- STUN Settings
- Multicast Paging Settings
- LDAP Settings**
- Server Common

LDAP Settings

LDAP

| | |
|-----------------------|---------------------------------------------------------------|
| Enable LDAP | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Max Hits | 20 [20-500] |
| Enable DNS SRV lookup | <input type="radio"/> Yes <input checked="" type="radio"/> No |

Save | Cancel

3.3.6.1 LDAP

Enable LDAP

| | |
|----------------------|-----------------------------------------------------------------------|
| Description | Selects whether to enable or disable the LDAP service. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | No |

3.3.6 LDAP Settings

| | |
|------------------------------|-------------|
| Configuration File Reference | LDAP_ENABLE |
|------------------------------|-------------|

Max Hits

| | |
|------------------------------|-----------------------------------------------------------------------------------|
| Description | Specifies the maximum number of search results to be returned by the LDAP server. |
| Value Range | 20–500 |
| Default Value | 20 |
| Configuration File Reference | LDAP_MAXRECORD |

Enable DNS SRV lookup

| | |
|------------------------------|-------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to request the DNS server to translate domain names into IP addresses using the SRV record. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | LDAP_DNSSRV_ENABLE |

3.3.6.2 Server Common

This screen allows you to change the common LDAP server settings. These settings are used when the same settings are not set individually for LDAP servers 1–16.

The screenshot shows the KX-TGP700 web interface. The top navigation bar includes links for Panasonic, Status, Network (which is highlighted in red), System, VoIP, Telephone, and Maintenance. On the left, there's a vertical sidebar with links for Logout, Web Port Close, Network (Basic Network Settings, Ethernet Port Settings, HTTP Client Settings, STUN Settings, Multicast Paging Settings, LDAP Settings), and Server Common (Server 1, Server 2, Server 3, Server 4, Server 5). The main content area is titled "LDAP Settings" and contains a form for "Server Common". The form fields are: Server Address (empty input field), Port (389, [1-65535]), User ID (empty input field), Password (redacted input field), Name Filter (cn=%(sn=%)), Number Filter (telephoneNumber=%)(mobile=%)(homePh%), Name Attributes (cn,sn), Number Attributes (telephoneNumber,mobile,homePhone), and Distinguished Name(Base DN) (empty input field). At the bottom of the form are "Save" and "Cancel" buttons.

Server Address

| | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the common server host for LDAP servers. |
| Value Range | Max. 256 characters |
| Note | <ul style="list-style-type: none">• The LDAP server address should start with "ldap://" or "ldaps://". |
| Default Value | Not stored. |
| Configuration File Reference | LDAP_SERVER |

Port

| | |
|-------------------------------------|---------------------------------------------|
| Description | Specifies the common port for LDAP servers. |
| Value Range | 1–65535 |
| Default Value | 389 |
| Configuration File Reference | LDAP_SERVER_PORT |

User ID

| | |
|-------------------------------------|-------------------------------------------------------------------------|
| Description | Specifies the common authentication ID required to access LDAP servers. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | LDAP_USERID |

Password

| | |
|-------------------------------------|-------------------------------------------------------------------------------|
| Description | Specifies the common authentication password required to access LDAP servers. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | LDAP_PASSWORD |

Name Filter

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------|
| Description | Specifies the common name filter, which is the search criteria for name lookup, for LDAP servers. |
| Value Range | Max. 256 characters |
| Default Value | ((cn=%)(sn=%)) |
| Configuration File Reference | LDAP_NAME_FILTER |

Number Filter

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------|
| Description | Specifies the common number filter, which is the search criteria for number lookup, for LDAP servers. |
| Value Range | Max. 256 characters |
| Default Value | ((telephoneNumber=%)(mobile =%)(homePhone =%)) |
| Configuration File Reference | LDAP_NUMB_FILTER |

Name Attributes

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Description | Specifies the common name attributes in the records that are returned in LDAP search results for LDAP servers. |
| Value Range | Max. 256 characters |
| Default Value | cn,sn |
| Configuration File Reference | LDAP_NAME_ATTRIBUTE |

3.3.6 LDAP Settings

Number Attributes

| | |
|------------------------------|------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the common number attributes in the records that are returned in LDAP search results for LDAP servers. |
| Value Range | Max. 256 characters |
| Default Value | telephoneNumber,mobile,homePhone |
| Configuration File Reference | LDAP_NUMB_ATTRIBUTE |

Distinguished Name(Base DN)

| | |
|------------------------------|------------------------------------------------------------------------|
| Description | Specifies the common entry information on the screen for LDAP servers. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | LDAP_BASEDN |

3.3.6.3 Server 1 - Server 16

This screen allows you to change the settings for LDAP servers 1–16. The settings on the LDAP Server Common screen are used when these items are not set.

Panasonic

KX-TGP700

Status Network System VoIP Telephone Maintenance

Logout Web Port Close

Network

Basic Network Settings
Ethernet Port Settings
HTTP Client Settings
STUN Settings
Multicast Paging Settings
LDAP Settings
- Server Common
- Server 1
- Server 2
- Server 3
- Server 4
- Server 5

LDAP Settings

Server 1

| | |
|-----------------------------|------------------------------------------------------------|
| Server Address | <input type="text"/> |
| Port | <input type="text"/> [1-65535] |
| User ID | <input type="text"/> |
| Password | <input type="text"/> |
| Name Filter | <input type="text"/> ((cn=%)(sn=%)) |
| Number Filter | <input type="text"/> ((telephoneNumber=%)(mobile=%)(homePh |
| Name Attributes | <input type="text"/> cn,sn |
| Number Attributes | <input type="text"/> telephoneNumber,mobile,homePhone |
| Distinguished Name(Base DN) | <input type="text"/> |

Save Cancel

Server Address

| | |
|------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the server host of the individual LDAP server. |
| Value Range | Max. 256 characters |
| Note | <ul style="list-style-type: none">The LDAP server address should start with "ldap://" or "ldaps://". |
| Default Value | Not stored. |
| Configuration File Reference | LDAP_SERVER_MULTIx |

Port

| | |
|-------------|---------------------------------------------------|
| Description | Specifies the port of the individual LDAP server. |
|-------------|---------------------------------------------------|

| | |
|-------------------------------------|-------------------------|
| Value Range | 1–65535 |
| Default Value | 389 |
| Configuration File Reference | LDAP_SERVER_PORT_MULTIx |

User ID

| | |
|-------------------------------------|--------------------------------------------------------------------------------|
| Description | Specifies the authentication ID required to access the individual LDAP server. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | LDAP_USERID_MULTIx |

Password

| | |
|-------------------------------------|--------------------------------------------------------------------------------------|
| Description | Specifies the authentication password required to access the individual LDAP server. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | LDAP_PASSWORD_MULTIx |

Name Filter

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------|
| Description | Specifies the name filter, which is the search criteria for name lookup, for the individual LDAP server. |
| Value Range | Max. 256 characters |
| Default Value | ((cn=%)(sn=%)) |
| Configuration File Reference | LDAP_NAME_FILTER_MULTIx |

Number Filter

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Description | Specifies the number filter, which is the search criteria for number lookup, for the individual LDAP server. |
| Value Range | Max. 256 characters |
| Default Value | ((telephoneNumber=%)(mobile =%)(homePhone =%)) |
| Configuration File Reference | LDAP_NUMB_FILTER_MULTIx |

Name Attributes

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the name attributes in the records that are returned in LDAP search results for the individual LDAP server. |
| Value Range | Max. 256 characters |
| Default Value | cn,sn |
| Configuration File Reference | LDAP_NAME_ATTRIBUTE_MULTIx |

3.3.7 Xtended Service Settings

Number Attributes

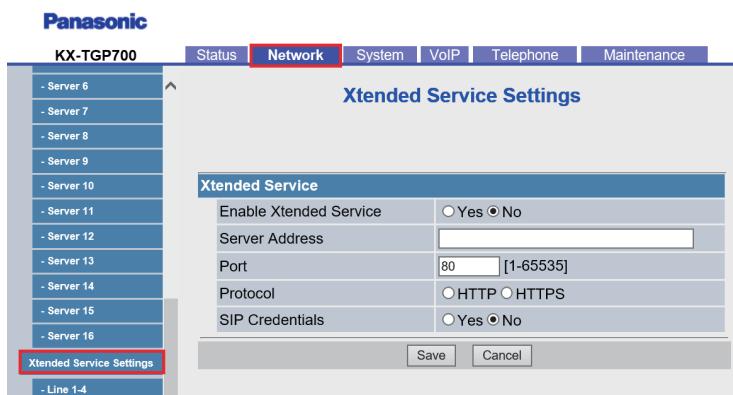
| | |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the number attributes in the records that are returned in LDAP search results for the individual LDAP server. |
| Value Range | Max. 256 characters |
| Default Value | telephoneNumber,mobile,homePhone |
| Configuration File Reference | LDAP_NUMB_ATTRIBUTE_MULTIx |

Distinguished Name(Base DN)

| | |
|------------------------------|-------------------------------------------------------------------------------|
| Description | Specifies the entry information on the screen for the individual LDAP server. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | LDAP_BASEDN_MULTIx |

3.3.7 Xtended Service Settings

This screen allows you to change the Xtended Service Settings.



3.3.7.1 Xtended Service

Enable Xtended Service

| | |
|------------------------------|--------------------------------------------------------------------|
| Description | Selects whether to enable or disable the Xsi service. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | XSI_ENABLE |

Server Address

| | |
|---------------|-----------------------------------------------------|
| Description | Specifies the IP address or FQDN of the Xsi server. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |

| | |
|-------------------------------------|------------|
| Configuration File Reference | XSI_SERVER |
|-------------------------------------|------------|

Port

| | |
|-------------------------------------|---------------------------------------|
| Description | Specifies the port of the Xsi server. |
| Value Range | 1–65535 |
| Default Value | 80 |
| Configuration File Reference | XSI_SERVER_PORT |

Protocol

| | |
|-------------------------------------|-------------------------------------|
| Description | Selects the type of the Xsi server. |
| Value Range | HTTP, HTTPS |
| Default Value | HTTP |
| Configuration File Reference | XSI_SERVER_TYPE |

SIP Credentials

| | |
|-------------------------------------|-----------------------------------------------------------------------|
| Description | Selects whether to enable or disable the XSI SIP Credentials feature. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | No |
| Configuration File Reference | XSI_SIP_CREDENTIALS_ENABLE |

3.3.7.2 Xtended Service Settings [Line 1-16]

This screen allows you to change the Xtended Service Settings that are specific to each line.

Panasonic

KX-TGP700 Status | Network | System | VoIP | Telephone | Maintenance

Xtended Service Settings [Line 1-4]

| Xtended Service [Line 1-4] | | |
|----------------------------|------------------|---------------------------------------------------------------|
| Line 1 | User ID | <input type="text"/> |
| | Password | <input type="password"/> |
| | Enable Phonebook | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Line 2 | Phonebook Type | Group |
| | Enable Call Log | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| | User ID | <input type="text"/> |
| Line 3 | Password | <input type="password"/> |
| | Enable Phonebook | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| | Phonebook Type | Group |

Xtended Service Settings

- Line 1-4
- Line 5-8
- Line 9-12
- Line 13-16

Line 13-16 is highlighted with a red box.

UC Settings
XML Application Settings
TWAMP Settings

User ID

| | |
|--------------------|--------------------------------------------------------------------|
| Description | Specifies the authentication ID required to access the Xsi server. |
|--------------------|--------------------------------------------------------------------|

3.3.7 Xtended Service Settings

| | |
|-------------------------------------|---------------------|
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | XSI_USERID_n |

Password

| | |
|-------------------------------------|--------------------------------------------------------------------------|
| Description | Specifies the authentication password required to access the Xsi server. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | XSI_PASSWORD_n |

Enable Phonebook

| | |
|-------------------------------------|--------------------------------------------------------------------|
| Description | Selects whether to enable or disable the Xsi phonebook service. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | XSI_PHONEBOOK_ENABLE_n |

Phonebook Type

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects the type of Xsi phonebook. |
| Value Range | <ul style="list-style-type: none">• Group• GroupCommon• Enterprise• EnterpriseCommon• Personal Note <ul style="list-style-type: none">• This setting is available only when "BSD_MULTI_TYPE_ENABLE" is set to "N". |
| Default Value | Group |
| Configuration File Reference | XSI_PHONEBOOK_TYPE_n |

Group

| | |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to enable or disable the "Group" type for Xsi phonebooks. |
| Value Range | <ul style="list-style-type: none">• Yes• No Note <ul style="list-style-type: none">• This setting is available only when "BSD_MULTI_TYPE_ENABLE" is set to "Y". |

| | |
|-------------------------------------|--------------------|
| Default Value | No |
| Configuration File Reference | BSD_GROUP_ENABLE_n |

GroupCommon

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to enable or disable the "GroupCommon" type for Xsi phonebooks. |
| Value Range | <ul style="list-style-type: none"> • Yes • No <p>Note</p> <ul style="list-style-type: none"> • This setting is available only when "BSD_MULTI_TYPE_ENABLE" is set to "Y". |
| Default Value | No |
| Configuration File Reference | BSD_GROUPCOM_ENABLE_n |

Enterprise

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to enable or disable the "Enterprise" type for Xsi phonebooks. |
| Value Range | <ul style="list-style-type: none"> • Yes • No <p>Note</p> <ul style="list-style-type: none"> • This setting is available only when "BSD_MULTI_TYPE_ENABLE" is set to "Y". |
| Default Value | No |
| Configuration File Reference | BSD_ENTERPRISE_ENABLE_n |

EnterpriseCommon

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to enable or disable the "EnterpriseCommon" type for Xsi phonebooks. |
| Value Range | <ul style="list-style-type: none"> • Yes • No <p>Note</p> <ul style="list-style-type: none"> • This setting is available only when "BSD_MULTI_TYPE_ENABLE" is set to "Y". |
| Default Value | No |
| Configuration File Reference | BSD_ENTERPRISECOM_ENABLE_n |

Personal

| | |
|--------------------|--------------------------------------------------------------------------------|
| Description | Specifies whether to enable or disable the "Personal" type for Xsi phonebooks. |
|--------------------|--------------------------------------------------------------------------------|

3.3.8 UC Settings

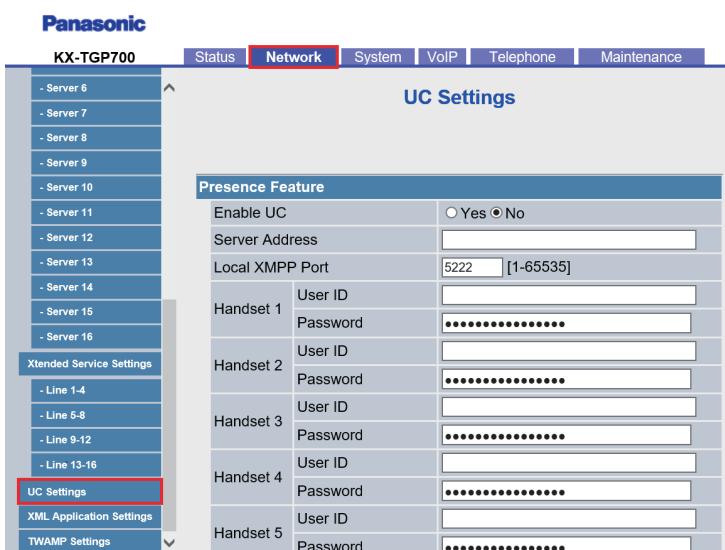
| | |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Note <ul style="list-style-type: none">• This setting is available only when "BSD_MULTI_TYPE_ENABLE" is set to "Y". | |
| Default Value | No |
| Configuration File Reference | BSD_PERSONAL_ENABLE_n |

Enable Call Log

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Description | Selects whether to enable or disable the Xsi call log service. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Note <ul style="list-style-type: none">• If this parameter is set to "Yes", the "Call History on Home" feature is not available (KX-TPA70/KX-TPA73 only). | |
| Default Value | No |
| Configuration File Reference | XSI_CALLLOG_ENABLE_n |

3.3.8 UC Settings

This screen allows you to change the UC Settings.



3.3.8.1 Presence Feature

Enable UC

| | |
|--------------------|-------------------------------------------|
| Description | Selects whether to enable the UC service. |
|--------------------|-------------------------------------------|

| | |
|-------------------------------------|-----------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | No |
| Configuration File Reference | UC_ENABLE |

Server Address

| | |
|-------------------------------------|------------------------------------------------------|
| Description | Specifies the IP address or FQDN of the XMPP server. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | XMPP_SERVER |

Local XMPP Port

| | |
|-------------------------------------|--------------------------------|
| Description | Specifies the local XMPP port. |
| Value Range | 1–65535 |
| Default Value | 5222 |
| Configuration File Reference | XMPP_PORT |

Handset 1–16 User ID

| | |
|-------------------------------------|-------------------------------------------------------------------|
| Description | Specifies the authentication ID required to access the UC server. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | UC_USERID_HSy |

Handset 1–16 Password

| | |
|-------------------------------------|-------------------------------------------------------------------------|
| Description | Specifies the authentication password required to access the UC server. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | UC_PASSWORD_HSy |

3.3.9 XML Application Settings

This screen allows you to configure the various URLs used with the XML application feature.

3.3.9 XML Application Settings

The screenshot shows the 'XML Application Settings' page of the Panasonic KX-TGP700 web interface. The top navigation bar includes tabs for Status, Network (which is selected), System, VoIP, Telephone, and Maintenance. On the left, a sidebar lists various service settings like Server 6-16, Extended Service Settings, Line 1-4, Line 5-8, Line 9-12, Line 13-16, UC Settings, and XML Application Settings (which is highlighted with a red box). The main content area is titled 'XML Application Settings' and contains two main sections: 'XML Application' and 'XML Phonebook'. The 'XML Application' section includes fields for 'Enable XMLAPP' (radio buttons for Yes or No), 'User ID', 'Password', and 'Local XML Port' (set to 6666). The 'XML Phonebook' section includes fields for 'LDAP URL', 'User ID', 'Password', and 'Max Hits' (set to 20). At the bottom right of the main form are 'Save' and 'Cancel' buttons.

3.3.9.1 XML Application

Enable XMLAPP

| | |
|-------------------------------------|--------------------------------------------------------------------|
| Description | Selects whether to enable or disable the XML application feature. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | XMLAPP_ENABLE |

User ID

| | |
|-------------------------------------|--------------------------------------------------------------------------------|
| Description | Specifies the authentication ID required to access the XML application server. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | XMLAPP_USERID |

Password

| | |
|-------------------------------------|----------------------------------------------------------------------------------|
| Description | Specifies the authentication password used to access the XML application server. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | XMLAPP_USERPASS |

Local XML Port

| | |
|--------------------|----------------------------------------------------|
| Description | Specifies the local HTTP port for XML application. |
| Value Range | 1–65535 |

| | |
|-------------------------------------|----------------|
| Default Value | 6666 |
| Configuration File Reference | XML_HTTPD_PORT |

3.3.9.2 XML Phonebook

LDAP URL

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------|
| Description | Specifies the URL that is accessed when the phonebook is accessed, to check for XML data. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | XMLAPP_LDAP_URL |

User ID

| | |
|-------------------------------------|---------------------------------------------------------------------|
| Description | Specifies the authentication ID required to access the LDAP server. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | XMLAPP_LDAP_USERID |

Password

| | |
|-------------------------------------|-----------------------------------------------------------------------|
| Description | Specifies the authentication password used to access the LDAP server. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | XMLAPP_LDAP_USERPASS |

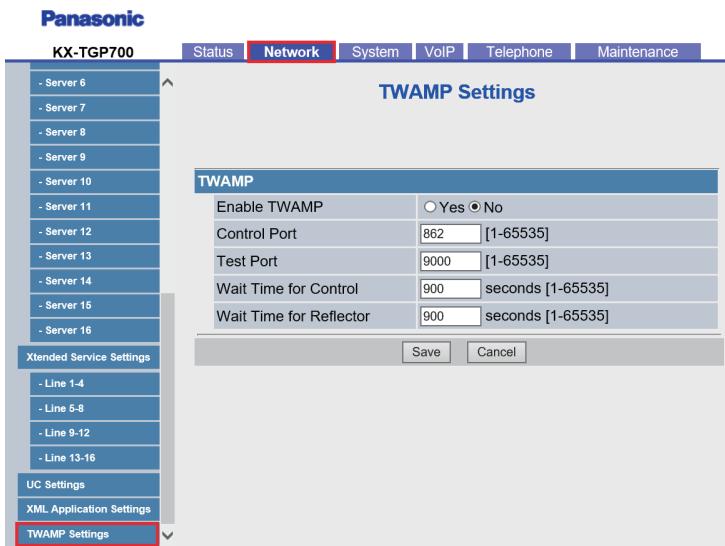
Max Hits

| | |
|-------------------------------------|-----------------------------------------------------------------------------------|
| Description | Specifies the maximum number of search results to be returned by the LDAP server. |
| Value Range | 20–500 |
| Default Value | 20 |
| Configuration File Reference | XMLAPP_LDAP_MAXRECORD |

3.3.10 TWAMP Settings

This screen allows you to change the TWAMP settings.

3.3.10 TWAMP Settings



3.3.10.1 TWAMP

Enable TWAMP

| | |
|------------------------------|----------------------------------------------------------------|
| Description | Selects whether to enable the TWAMP server function. |
| Value Range | <ul style="list-style-type: none">YesNo |
| Default Value | No |
| Configuration File Reference | TWAMP_ENABLE |

Control Port

| | |
|------------------------------|---------------------------------------------------|
| Description | Specifies the port for the TWAMP control session. |
| Value Range | 1-65535 |
| Default Value | 862 |
| Configuration File Reference | TWAMP_CONTROL_PORT |

Test Port

| | |
|------------------------------|------------------------------------------------|
| Description | Specifies the port for the TWAMP test session. |
| Value Range | 1-65535 |
| Default Value | 9000 |
| Configuration File Reference | TWAMP_TEST_PORT |

Wait Time for Control

| | |
|---------------|----------------------------------------------------------------------------------------------------------------|
| Description | Specifies the time, in seconds, for the TWAMP server to wait for incoming packets for maintaining the session. |
| Value Range | 1-65535 |
| Default Value | 900 |

| | |
|-------------------------------------|------------------------|
| Configuration File Reference | TWAMP_SERVER_WAIT_TIME |
|-------------------------------------|------------------------|

Wait Time for Reflector

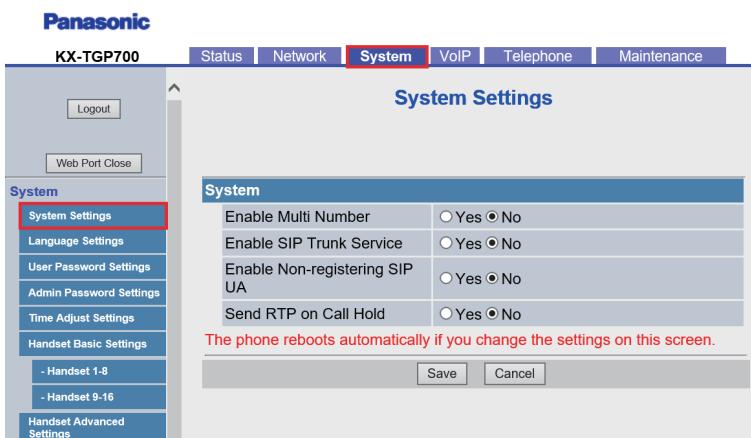
| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the time, in seconds, for the TWAMP reflector to wait for incoming packets for maintaining the session. |
| Value Range | 1-65535 |
| Default Value | 900 |
| Configuration File Reference | TWAMP_REFLECTOR_WAIT_TIME |

3.4 System

This section provides detailed descriptions about all the settings classified under the [System] tab.

3.4.1 System Settings

This screen allows you to perform system settings on IP terminals.



3.4.1.1 System

Enable Multi Number

| | |
|-------------------------------------|-----------------------------------------------------------------------|
| Description | Specifies whether to enable or disable the multi number mode. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | No |
| Configuration File Reference | MULTI_NUMBER_ENABLE |

Enable SIP Trunk Service

| | |
|--------------------|-------------------------------------------------------------|
| Description | Specifies whether you are using a SIP trunk service or not. |
|--------------------|-------------------------------------------------------------|

3.4.2 Language Settings

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• Yes• No Note <p>If "Yes" is specified, the settings for Line 2 to Line 8 of the following items are disabled.</p> <ul style="list-style-type: none">• "Local SIP Port" in Web User Interface Programming• "SIP_SRC_PORT" in Configuration File Programming <p>The settings will be the same as Line 1.</p> |
| Default Value | No |
| Configuration File Reference | SIP_TRUNK_MODE_ENABLE |

Enable Non-Registering SIP UA

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to enable or disable SIP UA registration. |
| Note | <ul style="list-style-type: none">• This setting is available only when [Enable SIP Trunk Service] is set to [Yes]. |
| Value Range | <ul style="list-style-type: none">• Yes (Enable to work without registering SIP)• No |
| Default Value | No |
| Configuration File Reference | SIP_NON_REGISTER_ENABLE |

Send RTP on Call Hold

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to enable or disable the continuous sending of RTP packets while a call is on hold. |
| Note | <ul style="list-style-type: none">• This setting is available only when [Enable SIP Trunk Service] is set to [Yes]. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | RTP_KEEP_ENABLE |

3.4.2 Language Settings

This screen allows you to select the language used for the Web user interface. The language setting is only applicable when you log in to the Web user interface as User.

Note

- If you change the language while logged in to the Web user interface with the User account, the language will be changed after the message "Complete" is displayed. If you are logged in with the Administrator account, the language will be changed when a user logs in to the Web user interface as User.

- The language used for the Web user interface for the Administrator account is always English.
- The language used for the unit remains unchanged even if the language for the Web user interface is changed.

Panasonic

KX-TGP700 Status | Network **System** VoIP | Telephone | Maintenance

Logout Web Port Close

System

System Settings **Language Settings**

User Password Settings

Admin Password Settings

Time Adjust Settings

Handset Basic Settings

- Handset 1-8
- Handset 9-16

Language Settings

Selectable Language

| | | |
|---------|----------------------------|--------------|
| Handset | en,de,es,fr,it,sv,nl,pt,cs | RFC3066 code |
| Web | en,de,es,fr,it,nl,pt,cs | RFC3066 code |

Web Language

| | |
|--------------|------|
| Web Language | en ▾ |
|--------------|------|

Save Cancel

3.4.2.1 Selectable Language

Handset

| | |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the selectable language on the handset. Up to 10 languages separated by commas can be registered. (e.g., "en,es,fr,de,it,nl,pt") |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|

3.4.2 Language Settings

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• en: English• es: Spanish• fr: French• de: German• it: Italian• da: Danish• nl: Dutch• sv: Swedish• fi: Finnish• el: Greek• hu: Hungarian• pt: Portuguese• pl: Polish• sk: Slovakian• cs: Czech• sh: Croatian• ru: Russian• uk: Ukrainian• tr: Turkish• no: Norwegian• ro: Romanian• ct: Custom• kk: Kazakh• me: Montenegrin |
| Default Value | Depends on the country or area. |
| Configuration File Reference | AVAILABLE_LANGUAGE_HS |

Web

| | |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the selectable language on the Web. Up to 10 languages separated by commas can be registered. (e.g., "en,es,fr,de,it,nl,pt") |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • en: English • es: Spanish • fr: French • de: German • it: Italian • nl: Dutch • el: Greek • hu: Hungarian • pt: Portuguese • pl: Polish • sk: Slovakian • cs: Czech • sh: Croatian • ru: Russian • uk: Ukrainian • tr: Turkish • ro: Romanian • ct: Custom • kk: Kazakh • me: Montenegrin |
| Default Value | Depends on the country or area. |
| Configuration File Reference | AVAILABLE_LANGUAGE_WEB |

3.4.2.2 Web Language

Web Language

| | |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects the default language on the web. You can select a language from the languages set in Web in 3.4.2.1 Selectable Language . |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|

3.4.3 User Password Settings

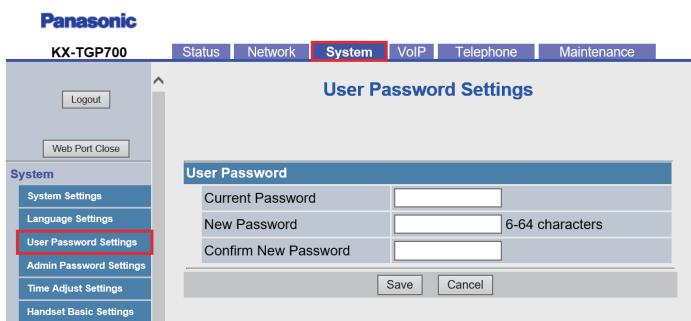
| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• en: English• es: Spanish• fr: French• de: German• it: Italian• nl: Dutch• el: Greek• hu: Hungarian• pt: Portuguese• pl: Polish• sk: Slovakian• cs: Czech• sh: Croatian• ru: Russian• uk: Ukrainian• tr: Turkish• ro: Romanian• ct: Custom• kk: Kazakh• me: Montenegrin |
| Default Value | en |
| Configuration File Reference | WEB_LANGUAGE |

3.4.3 User Password Settings

This screen allows you to change the password used to authenticate the User account when logging in to the Web user interface.

Note

- For security reasons, the characters entered for the password are masked by special characters, which differ depending on the Web browser.
- After you change the user password, the next time you access the Web user interface, the authentication dialog box appears. Three consecutive login failures will result in an error ("401Unauthorized"). This restriction only applies the first time you attempt to log in after changing the password. In all other circumstances, an error occurs after 3 unsuccessful login attempts.



3.4.3.1 User Password

Current Password

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the current password to use to authenticate the User account when logging in to the Web user interface. |
| Value Range | 6–64 characters |
| Default Value | Not stored. |

New Password

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the new password to use to authenticate the User account when logging in to the Web user interface. |
| Value Range | 6–64 characters |
| Note | <ul style="list-style-type: none"> A hyphen (-) cannot be used as the first character. |
| Default Value | <p>Not stored.</p> <p>Note</p> <ul style="list-style-type: none"> When a user logs in to the Web user interface for the first time, after clicking OK on the authentication dialog box, the [Initial User Password Settings] screen is displayed automatically to make the user set a password. |
| Configuration File Reference | USER_PASS |

Confirm New Password

| | |
|----------------------|-----------------------------------------------------------------------------------------|
| Description | Specifies the same password that you entered in [New Password] for confirmation. |
| Value Range | 6–64 characters |
| Default Value | Not stored. |

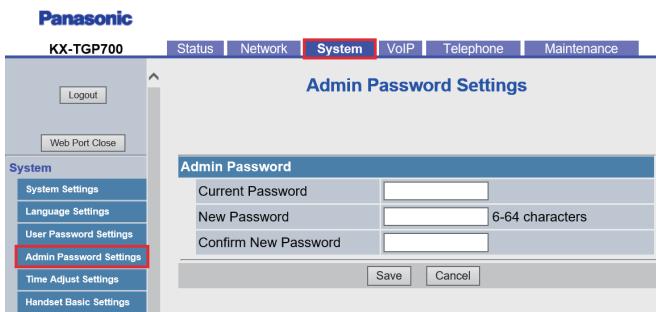
3.4.4 Admin Password Settings

This screen allows you to change the password used to authenticate the Administrator account when logging in to the Web user interface.

3.4.5 Time Adjust Settings

Note

- For security reasons, the characters entered for the password are masked by special characters, which differ depending on the Web browser.
- After you change the administrator password, the next time you access the Web user interface, the authentication dialog box appears. Three consecutive login failures will result in an error ("401 Unauthorized"). This restriction only applies the first time you attempt to log in after changing the password. In all other circumstances, an error occurs after 3 unsuccessful login attempts.



3.4.4.1 Admin Password

Current Password

| | |
|---------------|----------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the current password to use to authenticate the Administrator account when logging in to the Web user interface. |
| Value Range | 6–64 characters |
| Default Value | adminpass |

New Password

| | |
|------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the new password to use to authenticate the Administrator account when logging in to the Web user interface. |
| Value Range | 6–64 characters |
| Note | <ul style="list-style-type: none">• A hyphen (-) cannot be used as the first character. |
| Default Value | Not stored. |
| Configuration File Reference | ADMIN_PASS |

Confirm New Password

| | |
|---------------|----------------------------------------------------------------------------------|
| Description | Specifies the same password that you entered in [New Password] for confirmation. |
| Value Range | 6–64 characters |
| Default Value | Not stored. |

3.4.5 Time Adjust Settings

This screen allows you to enable automatic clock adjustment using an NTP server and configure the settings for DST (Daylight Saving Time), also known as Summer Time.

3.4.5.1 Synchronization

Server Address

| | |
|-------------------------------------|-------------------------------------------------|
| Description | Specifies the IP address or FQDN of NTP server. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | NTP_ADDR |

Synchronization Interval

| | |
|-------------------------------------|-----------------------------------------------------------------------------------|
| Description | Specifies the interval, in seconds, between synchronizations with the NTP server. |
| Value Range | 10–86400 |
| Default Value | 43200 |
| Configuration File Reference | TIME_QUERY_INVL |

3.4.5.2 Time Zone

Time Zone

| | |
|-------------------------------------|-------------------------|
| Description | Selects your time zone. |
| Value Range | GMT -12:00–GMT +13:00 |
| Default Value | GMT |
| Configuration File Reference | TIME_ZONE |

3.4.5.3 Daylight Saving Time (Summer Time)

Enable DST (Enable Summer Time)

| | |
|--------------------|---------------------------------------------------------------|
| Description | Selects whether to enable Daylight Saving Time (Summer Time). |
|--------------------|---------------------------------------------------------------|

3.4.5 Time Adjust Settings

| | |
|-------------------------------------|--------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | DST_ENABLE |

DST Offset (Summer Time Offset)

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------|
| Description | Specifies the amount of time, in minutes, to change the time when "DST_ENABLE" is set to "Y". |
| Value Range | 0–720 (min) |
| Default Value | 60 |
| Configuration File Reference | DST_OFFSET |

3.4.5.4 Start Day and Time of DST (Start Day and Time of Summer Time)

Month

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects the month in which DST (Summer Time) starts. |
| Value Range | <ul style="list-style-type: none">• January• February• March• April• May• June• July• August• September• October• November• December |
| Default Value | March |
| Configuration File Reference | DST_START_MONTH |

Day of Week

Using the 2 following settings, specify on which day of the selected month DST (Summer Time) starts. For example, to specify the second Sunday, select **[Second]** and **[Sunday]**.

| | |
|--------------------|-------------------------------------------------------------------|
| Description | Selects the number of the week on which DST (Summer Time) starts. |
|--------------------|-------------------------------------------------------------------|

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • First • Second • Third • Fourth • Last |
| Default Value | Second |
| Configuration File Reference | DST_START_ORDINAL_DAY |

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects the day of the week on which DST (Summer Time) starts. |
| Value Range | <ul style="list-style-type: none"> • Sunday • Monday • Tuesday • Wednesday • Thursday • Friday • Saturday |
| Default Value | Sunday |
| Configuration File Reference | DST_START_DAY_OF_WEEK |

Time

| | |
|-------------------------------------|--------------------------------------------------------------------------|
| Description | Specifies the start time of DST (Summer Time) in minutes after 12:00 AM. |
| Value Range | 0–1439 (min) |
| Default Value | 120 |
| Configuration File Reference | DST_START_TIME |

3.4.5.5 End Day and Time of DST (End Day and Time of Summer Time)

Month

| | |
|--------------------|----------------------------------------------------|
| Description | Selects the month in which DST (Summer Time) ends. |
|--------------------|----------------------------------------------------|

3.4.5 Time Adjust Settings

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• January• February• March• April• May• June• July• August• September• October• November• December |
| Default Value | November |
| Configuration File Reference | DST_STOP_MONTH |

Day of Week

Using the 2 following settings, specify on which day of the selected month DST (Summer Time) ends. For example, to specify the second Sunday, select **[Second]** and **[Sunday]**.

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Description | Selects the number of the week on which DST (Summer Time) ends. |
| Value Range | <ul style="list-style-type: none">• First• Second• Third• Fourth• Last |
| Default Value | First |
| Configuration File Reference | DST_STOP_ORDINAL_DAY |

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects the day of the week on which DST (Summer Time) ends. |
| Value Range | <ul style="list-style-type: none">• Sunday• Monday• Tuesday• Wednesday• Thursday• Friday• Saturday |
| Default Value | Sunday |
| Configuration File Reference | DST_STOP_DAY_OF_WEEK |

Time

| | |
|-------------------------------------|------------------------------------------------------------------------|
| Description | Specifies the end time of DST (Summer Time) in minutes after 12:00 AM. |
| Value Range | 0–1439 (min) |
| Default Value | 120 |
| Configuration File Reference | DST_STOP_TIME |

3.4.6 Handset Basic Settings

This screen allows you to change the Handset Name and Language for each Handset.

3.4.6.1 Handset 1–16

Handset Name

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the handset name. |
| Value Range | Max. 16 characters |
| Default Value | Handset1: "Handset 1" Handset2: "Handset 2" Handset3: "Handset 3" Handset4: "Handset 4" Handset5: "Handset 5" Handset6: "Handset 6" Handset7: "Handset 7" Handset8: "Handset 8" Handset9: "Handset 9" Handset10: "Handset 10" Handset11: "Handset 11" Handset12: "Handset 12" Handset13: "Handset 13" Handset14: "Handset 14" Handset15: "Handset 15" Handset16: "Handset 16" |
| Configuration File Reference | HANDSET_NAME_HSy |

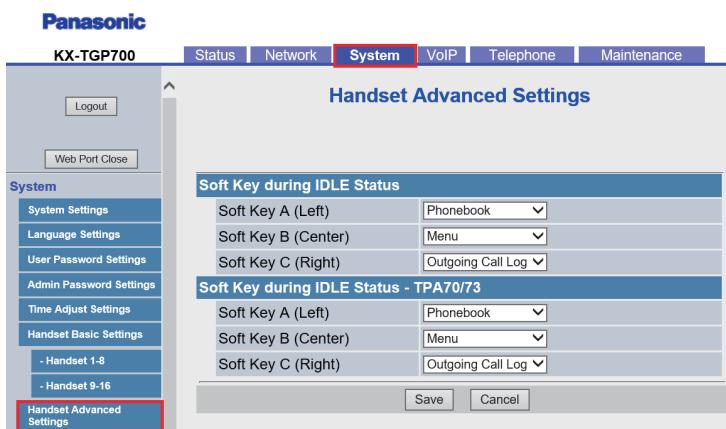
3.4.7 Handset Advanced Settings

Language

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects the default language on the handset. You can select a language from the languages set in Handset in 3.4.2.1 Selectable Language. |
| Value Range | en, es, fr, de, it, da, nl, sv, fi, el, hu, pt, pl, sk, cs, sh, ru, uk, tr, no, ro, ct, kk → see Handset in 3.4.2.1 Selectable Language |
| Default Value | en |
| Configuration File Reference | DEFAULT_LANGUAGE_HSy |

3.4.7 Handset Advanced Settings

This screen allows you to change the Soft Key function settings.



3.4.7.1 Soft Key during IDLE Status -TPA60/65

Soft Key A (Left)

| | |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects soft key (A) during IDLE state for KX-TPA60/KX-TPA65/KX-TPA68. |
| Value Range | <ul style="list-style-type: none">• Phonebook• Menu• Outgoing Call Log• Incoming Call Log• Redial• Page• Intercom Call |
| Note | <ul style="list-style-type: none">• The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.<ul style="list-style-type: none">– Page: MPAGE_FUNCKEY_ENABLE– Intercom: INTERCOM_ENABLE |

| | |
|-------------------------------------|-----------------|
| Default Value | Phonebook |
| Configuration File Reference | IDLE_SOFT_KEY_A |

Soft Key B (Center)

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects soft key (B) during IDLE state for KX-TPA60/KX-TPA65/KX-TPA68. |
| Value Range | <ul style="list-style-type: none"> • Phonebook • Menu • Outgoing Call Log • Incoming Call Log • Redial • Page • Intercom Call <p>Note</p> <ul style="list-style-type: none"> • The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting. <ul style="list-style-type: none"> – Page: MPAGE_FUNCKEY_ENABLE – Intercom: INTERCOM_ENABLE |
| Default Value | Menu |
| Configuration File Reference | IDLE_SOFT_KEY_B |

Soft Key C (Right)

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects soft key (C) during IDLE state for KX-TPA60/KX-TPA65/KX-TPA68. |
| Value Range | <ul style="list-style-type: none"> • Phonebook • Menu • Outgoing Call Log • Incoming Call Log • Redial • Page • Intercom Call <p>Note</p> <ul style="list-style-type: none"> • The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting. <ul style="list-style-type: none"> – Page: MPAGE_FUNCKEY_ENABLE – Intercom: INTERCOM_ENABLE |
| Default Value | Outgoing Call Log |

3.4.7 Handset Advanced Settings

| | |
|------------------------------|-----------------|
| Configuration File Reference | IDLE_SOFT_KEY_C |
|------------------------------|-----------------|

3.4.7.2 Soft Key during IDLE Status -TPA70/73

Soft Key A (Left)

| | |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects soft key (A) during IDLE state for KX-TPA70/KX-TPA73. |
| Value Range | <ul style="list-style-type: none">• Phonebook• Menu• Outgoing Call Log• Incoming Call Log• Call History• Redial• Page• Intercom Call |
| | Note <ul style="list-style-type: none">• The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.<ul style="list-style-type: none">– Page: MPAGE_FUNCKEY_ENABLE– Intercom: INTERCOM_ENABLE |
| Default Value | Phonebook |
| Configuration File Reference | IDLE_SOFT_KEY_A_UX1 (For KX-TPA70/KX-TPA73) |

Soft Key B (Center)

| | |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the soft key (B) during IDLE state for KX-TPA70/KX-TPA73. |
| Value Range | <ul style="list-style-type: none">• Phonebook• Menu• Outgoing Call Log• Incoming Call Log• Call History• Redial• Page• Intercom Call |
| | Note <ul style="list-style-type: none">• The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.<ul style="list-style-type: none">– Page: MPAGE_FUNCKEY_ENABLE– Intercom: INTERCOM_ENABLE |

| | |
|-------------------------------------|---------------------------------------------|
| Default Value | Menu |
| Configuration File Reference | IDLE_SOFT_KEY_B_UX1 (For KX-TPA70/KX-TPA73) |

Soft Key C (Right)

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the soft key (C) during IDLE state for KX-TPA70/KX-TPA73. |
| Value Range | <ul style="list-style-type: none"> Phonebook Menu Outgoing Call Log Incoming Call Log Call History Redial Page Intercom Call |
| Note | <ul style="list-style-type: none"> The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting. <ul style="list-style-type: none"> Page: MPAGE_FUNCKEY_ENABLE Intercom: INTERCOM_ENABLE |
| Default Value | Outgoing Call Log |
| Configuration File Reference | IDLE_SOFT_KEY_C_UX1 (For KX-TPA70/KX-TPA73) |

3.4.7.3 Handset 1–16

This screen allows you to change the Handset Advanced Settings for handset 1-16.

Enable Admin Ability

| | |
|--------------------|-----------------------------------------------------|
| Description | Selects whether to enable admin rights for handset. |
|--------------------|-----------------------------------------------------|

3.4.7 Handset Advanced Settings

| | |
|-------------------------------------|--------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | Yes |
| Configuration File Reference | ADMIN_ABILITY_ENABLE_HSy |

Enable Handset Lock

| | |
|-------------------------------------|--------------------------------------------------------------------|
| Description | Selects whether to enable locking handset. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | SYS_LOCK_ENABLE_HSy |

Password for Unlocking

| | |
|-------------------------------------|-----------------------------------------------|
| Description | Specifies the password for unlocking handset. |
| Value Range | Null, 4 digits (0–9) |
| Default Value | Not stored. |
| Configuration File Reference | SYS_LOCK_PASSWORD_HSy |

Missed Call Notification - Message

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to display 'Missed Calls' on the screen in standby mode. Note <ul style="list-style-type: none">• This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y". |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | Yes |
| Configuration File Reference | NOTIFY_MISSEDCALL_ENABLE_HSy |

Missed Call Notification - LED

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether the LED is used to indicate a missed call. Note <ul style="list-style-type: none">• This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y". |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | Yes |
| Configuration File Reference | NOTIFY_MISSEDCALL_LED_ENABLE_HSy |

Voice Message Notification - Message

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to display 'Voice MSG' on the screen in standby mode. |
| Note | <ul style="list-style-type: none"> This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y". |
| Value Range | <ul style="list-style-type: none"> Yes No |
| Default Value | Yes |
| Configuration File Reference | NOTIFY_VOICEMAIL_ENABLE_HSy |

Voice Message Notification - LED

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether the LED is used to indicate a new voice message. |
| Note | <ul style="list-style-type: none"> This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y". |
| Value Range | <ul style="list-style-type: none"> Yes No |
| Default Value | Yes |
| Configuration File Reference | NOTIFY_VOICEMAIL_LED_ENABLE_HSy |

Voice Message Notification - Alarm

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether an alarm sound is used to indicate a new voice message. |
| Note | <ul style="list-style-type: none"> This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y". |
| Value Range | <ul style="list-style-type: none"> Yes No |
| Default Value | Yes |
| Configuration File Reference | NOTIFY_VOICEMAIL_ALARM_ENABLE_HSy |

Shortcut Key Function

| | |
|-------------------------------------|------------------------------------------------------------------------------|
| Description | Selects the function assigned to the shortcut key. |
| Value Range | <ul style="list-style-type: none"> None Hot Key Dial |
| Default Value | Hot Key Dial |
| Configuration File Reference | SHORTCUT_KEY_TYPE_HSy (For KX-TPA70/KX-TPA73) |

3.4.8 Parallel Mode Settings

3.4.8 Parallel Mode Settings

This screen allows you to change the Parallel Mode settings that are Linking the desk phone and handset due to have the relation with master and slave. (→ see 5.6 Pairing (Parallel Mode))

| Master Desk Phone Number | Slave Handset Number | Mode |
|--------------------------|----------------------|----------------|
| 1 | - | Take Over Call |
| 2 | - | Take Over Call |
| 3 | - | Take Over Call |
| 4 | - | Take Over Call |
| 5 | - | Take Over Call |
| 6 | - | Take Over Call |
| 7 | - | Take Over Call |
| 8 | - | Take Over Call |
| 9 | - | Take Over Call |
| 10 | - | Take Over Call |
| 11 | - | Take Over Call |

3.4.8.1 Parallel Mode

Master Desk Phone Number 1–16

Slave Handset Number

| | |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Description | Selects handset number for the cordless desktop handset (KX-TPA65/KX-TPA68) when paired handsets are connected in parallel. |
| Value Range | -: Off, Handset 1–16 |
| Default Value | - |
| Configuration File Reference | PARALLEL_HSNOm |

Mode

| | |
|------------------------------|------------------------------------------------------------------------------|
| Description | Selects the behavior of paired extensions when going off-hook during a call. |
| Value Range | <ul style="list-style-type: none">BusyTake Over Call |
| Default Value | Take Over Call |
| Configuration File Reference | PARALLEL_MODEm |

3.4.9 Delete Handset

This screen allows you to confirm and delete registered handsets from the base unit.

Registered handsets are indicated by enabled check boxes in "Registration Number". Grayed out check boxes indicate handset numbers that are not registered on the base unit. To delete handsets, select the check boxes of the handsets you want to delete, and then click [Execute]. The check boxes that were

selected will become grayed out. The base unit will restart automatically, and registration of the handsets whose check boxes were selected will be deleted.

Panasonic
KX-TGP700 Status Network **System** VoIP Telephone Maintenance
Logout Web Port Close
Delete Handset
Delete Handset Registration
Handset Registration Number
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
The phone reboots automatically if you change the settings on this screen.
Execute
Handset Basic Settings
- Handset 1-8
- Handset 9-16
Handset Advanced Settings
- Handset 1-4
- Handset 5-8
- Handset 9-12
- Handset 13-16
Parallel Mode Settings
Delete Handset

3.4.9.1 Delete Handset Registration

Registration Number (1–16)

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Indicates which handsets (1–16) are registered to the base unit. Handset registration can be deleted from the base unit by selecting the check boxes. |
| Value Range | Selected, not selected |
| Default Value | Not applicable. |

3.5 VoIP

This section provides detailed descriptions about all the settings classified under the [VoIP] tab.

3.5.1 SIP Settings

This screen allows you to change the SIP settings that are common to all lines.

Panasonic
KX-TGP700 Status Network System **VoIP** Telephone Maintenance
Logout Web Port Close
SIP Settings
User Agent
User Agent Panasonic-{MODEL}/{fwver} ({mac})
NAT Identity
Enable Rport (RFC 3581) Yes No
Enable Port Punching for SIP 0 seconds [10-300, 0: Disable]
Enable Port Punching for RTP 0 seconds [10-300, 0: Disable]
Advanced
TLS Port random Yes No
UDP Port random Yes No
Save Cancel
SIP Settings
- Line 1
- Line 2
- Line 3
- Line 4
- Line 5
- Line 6
- Line 7
- Line 8
- Line 9
- Line 10

3.5.1 SIP Settings

3.5.1.1 User Agent

User Agent

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the text string to send as the user agent in the headers of SIP messages. |
| Value Range | Max. 64 characters Note <ul style="list-style-type: none">• If "{mac}" is included in this field, it will be replaced with the unit's MAC address in lower-case.• If "{MAC}" is included in this field, it will be replaced with the unit's MAC address in upper-case.• If "{MODEL}" is included in this field, it will be replaced with the unit's model name.• If "{fwver}" is included in this field, it will be replaced with the firmware version of the unit.• If "{sipver}" is included in this parameter, it will be replaced with the SIP software version of the unit. |
| Default Value | Panasonic-{MODEL}/{fwver} ({mac}) |
| Configuration File Reference | SIP_USER_AGENT |

3.5.1.2 NAT Identity

Enable Rport (RFC 3581)

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------|
| Description | Selects whether to add the 'rport' parameter to the top Via header field value of requests generated. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | SIP_ADD_RPORT |

Enable Port Punching for SIP

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the interval, in seconds, between transmissions of the Keep Alive packet in order to maintain the NAT binding information for SIP packet. |
| Value Range | 0, 10–300 0: Disable |
| Default Value | 0 |
| Configuration File Reference | PORT_PUNCH_INVL |

Enable Port Punching for RTP

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the interval, in seconds, between transmissions of the Keep Alive packet in order to maintain the NAT binding information for RTP packet. |
| Value Range | 0, 10–300 0: Disable |
| Default Value | 0 |
| Configuration File Reference | RTP_PORT_PUNCH_INVL |

3.5.1.3 Advanced

TLS Port Random

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to assign a source port number randomly (ephemeral port) or to use a static source port number when using SIP-TLS. |
| Note | <ul style="list-style-type: none"> This parameter applies to all lines that use SIP-TLS. UDP/TCP ports are completely unaffected by this parameter. |
| Value Range | <ul style="list-style-type: none"> Yes (Assign a source port number randomly) No (Use a static source port number (Refer to SIP_SRC_PORT_n)) |
| Default Value | Yes |
| Configuration File Reference | SIP_TLS_RANDOM_PORT |

UDP Port Random

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to assign a source port number randomly (ephemeral port) or to use a static source port number when using UDP. |
| Note | <ul style="list-style-type: none"> This parameter applies to all lines that use UDP. |
| Value Range | <ul style="list-style-type: none"> Yes (Assign a source port number randomly) No (Use a static source port number (Refer to SIP_SRC_PORT_n)) |
| Default Value | No |
| Configuration File Reference | SIP_UDP_RANDOM_PORT |

3.5.2 SIP Settings [Line 1]–[Line 16]

This screen allows you to change the SIP settings that are specific to each line.

3.5.2 SIP Settings [Line 1]–[Line 16]

The screenshot shows the 'SIP Settings [Line 1]' configuration page. The left sidebar has a red box around the 'SIP Settings' section, which contains a list of lines from 1 to 14. The main area shows basic SIP settings for Line 1, including fields for Phone Number, Registrar Server Address, Registrar Server Port, Proxy Server Address, Proxy Server Port, Presence Server Address, Presence Server Port, Outbound Proxy Server Address, Outbound Proxy Server Port, Service Domain, Authentication ID, and Authentication Password.

3.5.2.1 Basic

Phone Number

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the phone number to use as the user ID required for registration to the SIP registrar server. |
| Note | <ul style="list-style-type: none">When registering using a user ID that is not a phone number, you should use the [SIP URI] setting. |
| Value Range | Max. 32 characters |
| Default Value | Not stored. |
| Configuration File Reference | PHONE_NUMBER_n |

Registrar Server Address

| | |
|-------------------------------------|---------------------------------------------------------------|
| Description | Specifies the IP address or FQDN of the SIP registrar server. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | SIP_RGSTR_ADDR_n |

Registrar Server Port

| | |
|-------------------------------------|-----------------------------------------------------------------------------------|
| Description | Specifies the port number to use for communication with the SIP registrar server. |
| Value Range | 1–65535 |
| Default Value | 5060 |
| Configuration File Reference | SIP_RGSTR_PORT_n |

Proxy Server Address

| | |
|-------------------------------------|-----------------------------------------------------------|
| Description | Specifies the IP address or FQDN of the SIP proxy server. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | SIP_PRXY_ADDR_n |

Proxy Server Port

| | |
|-------------------------------------|-------------------------------------------------------------------------------|
| Description | Specifies the port number to use for communication with the SIP proxy server. |
| Value Range | 1–65535 |
| Default Value | 5060 |
| Configuration File Reference | SIP_PRXY_PORT_n |

Presence Server Address

| | |
|-------------------------------------|--------------------------------------------------------------|
| Description | Specifies the IP address or FQDN of the SIP presence server. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | SIP_PRSNC_ADDR_n |

Presence Server Port

| | |
|-------------------------------------|----------------------------------------------------------------------------------|
| Description | Specifies the port number to use for communication with the SIP presence server. |
| Value Range | 1–65535 |
| Default Value | 5060 |
| Configuration File Reference | SIP_PRSNC_PORT_n |

Outbound Proxy Server Address

| | |
|-------------------------------------|--------------------------------------------------------------------|
| Description | Specifies the IP address or FQDN of the SIP outbound proxy server. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | SIP_OUTPROXY_ADDR_n |

Outbound Proxy Server Port

| | |
|-------------------------------------|----------------------------------------------------------------------------------------|
| Description | Specifies the port number to use for communication with the SIP outbound proxy server. |
| Value Range | 1–65535 |
| Default Value | 5060 |
| Configuration File Reference | SIP_OUTPROXY_PORT_n |

3.5.2 SIP Settings [Line 1]–[Line 16]

Service Domain

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the domain name provided by your phone system dealer/service provider. The domain name is the part of the SIP URI that comes after the "@" symbol. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | SIP_SVCDOMAIN_n |

Authentication ID

| | |
|-------------------------------------|--------------------------------------------------------------------|
| Description | Specifies the authentication ID required to access the SIP server. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | SIP_AUTHID_n |

Authentication Password

| | |
|-------------------------------------|----------------------------------------------------------------------|
| Description | Specifies the authentication password used to access the SIP server. |
| Value Range | Max. 128 characters |
| Default Value | Not stored. |
| Configuration File Reference | SIP_PASS_n |

3.5.2.2 Advanced

SIP Packet QoS (DSCP)

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------|
| Description | Specifies the DSCP (Differentiated Services Code Point) level of DiffServ applied to SIP packets. |
| Value Range | 0–63 |
| Default Value | 0 |
| Configuration File Reference | DSCP_SIP_n |

Enable DNS SRV lookup

| | |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to request the DNS server to translate domain names into IP addresses using the SRV record. |
| Value Range | <ul style="list-style-type: none">• Yes• No <p>Note</p> <ul style="list-style-type: none">• If you select [Yes], the unit will perform a DNS SRV lookup for a SIP registrar server, SIP proxy server, SIP outbound proxy server, or SIP presence server. If you select [No], the unit will not perform a DNS SRV lookup for a SIP registrar server, SIP proxy server, SIP outbound proxy server, or SIP presence server. |

| | |
|-------------------------------------|------------------|
| Default Value | Yes |
| Configuration File Reference | SIP_DNSSRV_ENA_n |

SRV lookup Prefix for UDP

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies a prefix to add to the domain name when performing a DNS SRV lookup using UDP. |
| Note | <ul style="list-style-type: none"> This setting is available only when [Enable DNS SRV lookup] is set to [Yes]. |
| Value Range | Max. 32 characters |
| Default Value | _sip._udp. |
| Configuration File Reference | SIP_UDP_SRV_PREFIX_n |

SRV lookup Prefix for TCP

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies a prefix to add to the domain name when performing a DNS SRV lookup using TCP. |
| Note | <ul style="list-style-type: none"> This setting is available only when [Enable DNS SRV lookup] is set to [Yes]. |
| Value Range | Max. 32 characters |
| Default Value | _sip._tcp. |
| Configuration File Reference | SIP_TCP_SRV_PREFIX_n |

SRV lookup Prefix for TLS

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies a prefix to add to the domain name when performing a DNS SRV lookup using TLS. |
| Note | <ul style="list-style-type: none"> This setting is available only when [Enable DNS SRV lookup] is set to [Yes]. |
| Value Range | Max. 32 characters |
| Default Value | _sips._tls. |
| Configuration File Reference | SIP_TLS_SRV_PREFIX_n |

Local SIP Port

| | |
|--------------------|--------------------------------------------------------------------------|
| Description | Specifies the source port number used by the unit for SIP communication. |
|--------------------|--------------------------------------------------------------------------|

3.5.2 SIP Settings [Line 1]–[Line 16]

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | 1024–49151 |
| | <p>Note</p> <ul style="list-style-type: none"> If "Enable SIP Trunk Service" is set to "Yes" or "SIP_TRUNK_MODE_ENABLE" is set to "Y", the settings for Line 2 to Line 16 are disabled. The settings will be same as Line 1. |
| Default Value | 5060 (for Line 1) 5070 (for Line 2) 5080 (for Line 3) 5090 (for Line 4) 5100 (for Line 5) 5110 (for Line 6) 5120 (for Line 7) 5130 (for Line 8) 5140 (for Line 9) 5150 (for Line 10) 5160 (for Line 11) 5170 (for Line 12) 5180 (for Line 13) 5190 (for Line 14) 5200 (for Line 15) 5210 (for Line 16) |
| Configuration File Reference | SIP_SRC_PORT_n |

SIP URI

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the unique ID used by the SIP registrar server, which consists of "sip:", a user part, the "@" symbol, and a host part, for example, "sip:user@example.com", "2405551111_1". |
| | <p>Note</p> <ul style="list-style-type: none"> When registering using a user ID that is not a phone number, you should use this setting. In a SIP URI, the user part ("user" in the example above) can contain up to 63 characters, and the host part ("example.com" in the example above) can contain up to 316 characters. |
| Value Range | Max. 384 characters |
| Default Value | Not stored. |
| Configuration File Reference | SIP_URI_n |

T1 Timer

| | |
|--------------------|-----------------------------------------------------------------------------------------|
| Description | Specifies the default interval, in milliseconds, between transmissions of SIP messages. |
|--------------------|-----------------------------------------------------------------------------------------|

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • 250 • 500 • 1000 • 2000 • 4000 |
| Default Value | 500 |
| Configuration File Reference | SIP_TIMER_T1_n |

T2 Timer

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Description | Specifies the maximum interval, in seconds, between transmissions of SIP messages. |
| Value Range | <ul style="list-style-type: none"> • 2 • 4 • 8 • 16 • 32 |
| Default Value | 4 |
| Configuration File Reference | SIP_TIMER_T2_n |

REGISTER Expires Timer

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the length of time, in seconds, that the registration remains valid. This value is set in the "Expires" header of the REGISTER request. |
| Value Range | 1–4294967295 |
| Default Value | 3600 |
| Configuration File Reference | REG_EXPIRE_TIME_n |

Enable Session Timer (RFC 4028)

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the length of time, in seconds, that the unit waits before terminating SIP sessions when no reply to repeated requests is received. |
| Value Range | 0, 60–65535 |
| Default Value | 0 |
| Configuration File Reference | SIP_SESSION_TIME_n |

Session Timer Method

| | |
|--------------------|-------------------------------------------------------------------------------------------------------|
| Description | Selects the refreshing method of SIP sessions. |
| Value Range | <ul style="list-style-type: none"> • INVITE • UPDATE • INVITE/UPDATE |

3.5.2 SIP Settings [Line 1]–[Line 16]

| | |
|-------------------------------------|----------------------|
| Default Value | INVITE |
| Configuration File Reference | SIP_SESSION_METHOD_n |

Enable 100rel (RFC 3262)

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to add the option tag 100rel to the "Supported" header of the INVITE message. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Note | <ul style="list-style-type: none">• If you select [Yes], the Reliability of Provisional Responses function will be enabled. The option tag 100rel will be added to the "Supported" header of the INVITE message and to the "Require" header of the "1xx" provisional message. If you select [No], the option tag 100rel will not be used. |
| Default Value | Yes |
| Configuration File Reference | SIP_100REL_ENABLE_n |

Enable SSAF (SIP Source Address Filter)

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Description | Selects whether to enable SSAF for the SIP servers (registrar server, proxy server, and presence server). |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | Yes |
| Configuration File Reference | SIP_DETECT_SSAF_n |

Enable c=0.0.0.0 Hold (RFC 2543)

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to enable the RFC 2543 Call Hold feature on this line. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Note | <ul style="list-style-type: none">• If you select [Yes], the "c=0.0.0.0" syntax will be set in SDP when sending a re-INVITE message to hold the call. If you select [No], the "c=x.x.x.x" syntax will be set in SDP. |
| Default Value | Yes |
| Configuration File Reference | RFC2543_HOLD_ENABLE_n |

Transport Protocol

| | |
|--------------------|------------------------------------------------------------------------|
| Description | Selects which transport layer protocol to use for sending SIP packets. |
|--------------------|------------------------------------------------------------------------|

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • UDP • TCP • TLS |
| Note | <ul style="list-style-type: none"> • If "SIP_DNSSRV_ENA_NAPTR_n" is set to "Y", match the protocol of NAPTR with the setting for "Transport Protocol" or "SIP_TRANSPORT_n". |
| Default Value | UDP |
| Configuration File Reference | SIP_TRANSPORT_n |

TLS Mode

| | |
|-------------------------------------|-----------------------------------------------------------------------------|
| Description | Select the secure SIP protocol. |
| Value Range | <ul style="list-style-type: none"> • SIPS • SIP-TLS |
| Default Value | SIPS |
| Configuration File Reference | SIP_TLS_MODE_n |

3.5.3 VoIP Settings

This screen allows you to change the VoIP settings that are common to all lines.

3.5.3.1 RTP

RTP Packet Time

| | |
|--------------------|------------------------------------------------------------------------------|
| Description | Selects the interval, in milliseconds, between transmissions of RTP packets. |
|--------------------|------------------------------------------------------------------------------|

3.5.3 VoIP Settings

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• 20• 30• 40• 60 |
| Default Value | 20 |
| Configuration File Reference | RTP_PTIME |

Minimum RTP Port Number

| | |
|-------------------------------------|--------------------------------------------------------------------------|
| Description | Specifies the lowest port number that the unit will use for RTP packets. |
| Value Range | 1024–59598 (even number only) |
| Default Value | 16000 |
| Configuration File Reference | RTP_PORT_MIN |

Maximum RTP Port Number

| | |
|-------------------------------------|---------------------------------------------------------------------------|
| Description | Specifies the highest port number that the unit will use for RTP packets. |
| Value Range | 1424–59998 (even number only) |
| Default Value | 20000 |
| Configuration File Reference | RTP_PORT_MAX |

Telephone-event Payload Type

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the RFC 2833 payload type for DTMF tones. Note <ul style="list-style-type: none">• This setting is available only when [DTMF Type] is set to [RFC2833]. |
| Value Range | 96–127 |
| Default Value | 101 |
| Configuration File Reference | TELEVENT_PAYLOAD |

3.5.3.2 Voice Quality Report

Server Address

| | |
|-------------------------------------|-----------------------------------------------------------|
| Description | Specifies the IP address or FQDN of the collector server. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | VQREPORT_COLLECTOR_ADDRESS |

Port

| | |
|--------------------|---------------------------------------------|
| Description | Specifies the port of the collector server. |
|--------------------|---------------------------------------------|

| | |
|-------------------------------------|-------------------------|
| Value Range | 1–65535 |
| Default Value | 5060 |
| Configuration File Reference | VQREPORT_COLLECTOR_PORT |

Enable PUBLISH

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects the sending type of the VQ report using PUBLISH. |
| Value Range | <ul style="list-style-type: none"> • Disable • End of Session Report Using PUBLISH • Interval report Using PUBLISH • Alert Report Using PUBLISH |
| Default Value | Disable |
| Configuration File Reference | VQREPORT_SEND |

Alert Report Trigger

| | |
|-------------------------------------|---------------------------------------------------------------------------------|
| Description | Selects the trigger to notify the VQ report. |
| Value Range | <ul style="list-style-type: none"> • Warning • Critical |
| Default Value | Warning |
| Configuration File Reference | ALERT_REPORT_TRIGGER |

Threshold MOS-LQ (Critical)

| | |
|-------------------------------------|-------------------------------------------------------------------------------|
| Description | Specifies the criteria (critical) to send the VQ report when the MOSQ occurs. |
| Value Range | 0–40 |
| Default Value | 0 |
| Configuration File Reference | ALERT_REPORT_MOSQ_CRITICAL |

Threshold MOS-LQ (Warning)

| | |
|-------------------------------------|------------------------------------------------------------------------------|
| Description | Specifies the criteria (warning) to send the VQ report when the MOSQ occurs. |
| Value Range | 0–40 |
| Default Value | 0 |
| Configuration File Reference | ALERT_REPORT_MOSQ_WARNING |

Threshold Delay (Critical)

| | |
|-------------------------------------|------------------------------------------------------------------------------|
| Description | Specifies the criteria (critical) to send the VQ report when a delay occurs. |
| Value Range | 0–2000 |
| Default Value | 0 |
| Configuration File Reference | ALERT_REPORT_DELAY_CRITICAL |

3.5.4 VoIP Settings [Line 1]–[Line 16]

Threshold Delay (Warning)

| | |
|------------------------------|-----------------------------------------------------------------------------|
| Description | Specifies the criteria (warning) to send the VQ report when a delay occurs. |
| Value Range | 0–2000 |
| Default Value | 0 |
| Configuration File Reference | ALERT_REPORT_DELAY_WARNING |

3.5.4 VoIP Settings [Line 1]–[Line 16]

This screen allows you to change the VoIP settings that are specific to each line.

G.722 is available only when "WIDEBAND_AUDIO_ENABLE"="Y" is set. (→ see 4.3 System Settings).

Panasonic

KX-TGP700 Status Network System **VoIP** Telephone Maintenance

Logout Web Port Close

VoIP

SIP Settings

- Line 1
- Line 2
- Line 3
- Line 4
- Line 5
- Line 6
- Line 7
- Line 8
- Line 9
- Line 10
- Line 11
- Line 12

VoIP Settings [Line 1]

Basic

| | | |
|----------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------|
| PCMA | Enable | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| | Priority | 1 [1-255] |
| G.729A | Enable | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| | Priority | 1 [1-255] |
| PCMU | Enable | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| | Priority | 1 [1-255] |
| Opus | Enable | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| | Priority | 1 [1-255] |
| DTMF Type <input checked="" type="radio"/> RFC2833 <input type="radio"/> Inband <input type="radio"/> SIP INFO | | |

Advanced

| | |
|------------------------|----------|
| RTP Packet QoS (DSCP) | 0 [0-63] |
| RTCP Packet QoS (DSCP) | 0 [0-63] |

3.5.4.1 Basic

G.722 Enable

| | |
|------------------------------|------------------------------------------------------------------------|
| Description | Selects whether to enable the G.722 codec for voice data transmission. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | Yes |
| Configuration File Reference | CODEC_ENABLEx_n |

G.722 Priority

| | |
|------------------------------|-------------------------------------------------------------------|
| Description | Specifies the numerical order usage priority for the G.722 codec. |
| Value Range | 1–255 |
| Default Value | 1 |
| Configuration File Reference | CODEC_PRIORITYx_n |

PCMA Enable

| | |
|-------------------------------------|-----------------------------------------------------------------------|
| Description | Selects whether to enable the PCMA codec for voice data transmission. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | Yes |
| Configuration File Reference | CODEC_ENABLEx_n |

PCMA Priority

| | |
|-------------------------------------|------------------------------------------------------------------|
| Description | Specifies the numerical order usage priority for the PCMA codec. |
| Value Range | 1–255 |
| Default Value | 1 |
| Configuration File Reference | CODEC_PRIORITYx_n |

G.729A Enable

| | |
|-------------------------------------|-------------------------------------------------------------------------|
| Description | Selects whether to enable the G.729A codec for voice data transmission. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | Yes |
| Configuration File Reference | CODEC_ENABLEx_n |

G.729A Priority

| | |
|-------------------------------------|--------------------------------------------------------------------|
| Description | Specifies the numerical order usage priority for the G.729A codec. |
| Value Range | 1–255 |
| Default Value | 1 |
| Configuration File Reference | CODEC_PRIORITYx_n |

PCMU Enable

| | |
|-------------------------------------|-----------------------------------------------------------------------|
| Description | Selects whether to enable the PCMU codec for voice data transmission. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | Yes |
| Configuration File Reference | CODEC_ENABLEx_n |

PCMU Priority

| | |
|--------------------|------------------------------------------------------------------|
| Description | Specifies the numerical order usage priority for the PCMU codec. |
| Value Range | 1–255 |

3.5.4 VoIP Settings [Line 1]–[Line 16]

| | |
|-------------------------------------|-------------------|
| Default Value | 1 |
| Configuration File Reference | CODEC_PRIORITYx_n |

Opus Enable

| | |
|-------------------------------------|-----------------------------------------------------------------------|
| Description | Selects whether to enable the Opus codec for voice data transmission. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | Yes |
| Configuration File Reference | CODEC_ENABLEx_n |

Opus Priority

| | |
|-------------------------------------|------------------------------------------------------------------|
| Description | Specifies the numerical order usage priority for the Opus codec. |
| Value Range | 1–255 |
| Default Value | 1 |
| Configuration File Reference | CODEC_PRIORITYx_n |

DTMF Type

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects the method for transmitting DTMF (Dual Tone Multi-Frequency) tones. |
| Value Range | <ul style="list-style-type: none">• RFC2833• Inband• SIP INFO |
| | Note <ul style="list-style-type: none">• RFC2833 refers to Outband DTMF.• Inband refers to Inband DTMF. |
| Default Value | RFC2833 |
| Configuration File Reference | DTMF_METHOD_n |

3.5.4.2 Advanced

RTP Packet QoS (DSCP)

| | |
|-------------------------------------|--------------------------------------------------------------|
| Description | Specifies the DSCP level of DiffServ applied to RTP packets. |
| Value Range | 0–63 |
| Default Value | 0 |
| Configuration File Reference | DSCP_RTP_n |

RTCP Packet QoS (DSCP)

| | |
|--------------------|-----------------------------------------------------------------------|
| Description | Specifies the DSCP level of DiffServ applied to RTCP/RTCP-XR packets. |
|--------------------|-----------------------------------------------------------------------|

| | |
|-------------------------------------|-------------|
| Value Range | 0–63 |
| Default Value | 0 |
| Configuration File Reference | DSCP_RTCP_n |

Enable RTCP

| | |
|-------------------------------------|-----------------------------------------------------------------------|
| Description | Selects whether to enable or disable RTCP. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | No |
| Configuration File Reference | RTCP_ENABLE_n |

Enable RTCP-XR

| | |
|-------------------------------------|-----------------------------------------------------------------------|
| Description | Selects whether to enable or disable RTCP-XR. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | No |
| Configuration File Reference | RTCPXR_ENABLE_n |

RTCP&RTCP-XR Interval

| | |
|-------------------------------------|-------------------------------------------------------------------|
| Description | Specifies the interval, in seconds, between RTCP/RTCP-XR packets. |
| Value Range | 5–65535 |
| Default Value | 5 |
| Configuration File Reference | RTCP_INTVL_n |

SRTP Mode

| | |
|--------------------|-----------------------------------|
| Description | Selects the mode of SRTP feature. |
|--------------------|-----------------------------------|

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • 0: SRTP • 1: RTP/SRTP • 2: Panasonic Original • 3: SRTP/RTP |
| Note | <ul style="list-style-type: none"> • 0: SRTP Use only SRTP for outgoing and incoming calls. • 1: RTP/SRTP Use only RTP for outgoing calls, and RTP or SRTP for incoming calls. • 2: Panasonic Original Use RTP or SRTP for both outgoing and incoming calls. This value is valid only when the unit is connected to a Panasonic PBX. "SRTP_MIX_TRANSFER_ENABLE_n" must also be set to "Y". • 3: SRTP/RTP If you are using "RTP/AVP" and append "a=crypto", and the response message includes "a=crypto", the conversation will be established with SRTP. If "a=crypto" is not included, the conversation will be established with RTP. |
| Default Value | 1: RTP/SRTP |
| Configuration File Reference | SRTP_CONNECT_MODE_n |

Enable Mixed SRTP & RTP by Conference

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------|
| Description | Selects whether to allow conferences where each participant can use either SRTP or RTP. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | No |
| Configuration File Reference | SRTP_MIX_CONFERENCE_ENABLE_n |

Enable Mixed SRTP & RTP by Transfer

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------|
| Description | Selects whether to allow call transfers between a user who is using SRTP and a user who is using RTP. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | No |
| Configuration File Reference | SRTP_MIX_TRANSFER_ENABLE_n |

3.6 Telephone

This section provides detailed descriptions about all the settings classified under the [Telephone] tab.

3.6.1 Multi Number Settings

A maximum of 16 phone numbers can be assigned for each unit. A maximum of 16 handsets can be registered to the base unit. For details, see 5.1 Line Settings.

This setting is available only when "MULTI_NUMBER_ENABLE"="Y" is set (see 4.3 System Settings).

3.6.1.1 Group Handset / Handset select for receiving call

This screen allows you to assign phone numbers for incoming calls to the base unit and handsets.

| Line | Phone Number | Handset Number | | | | | | | | | | | | | | | Paging |
|------|--------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------|--------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| 1 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HS1 ✓ | |
| 2 | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HS2 ✓ | |
| 3 | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HS3 ✓ | |
| 4 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HS4 ✓ | |
| 5 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HS5 ✓ | |
| 6 | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HS6 ✓ | |
| 7 | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HS7 ✓ | |
| 8 | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HS8 ✓ | |
| 9 | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HS9 ✓ | |
| 10 | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HS10 ✓ | |
| 11 | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HS11 ✓ | |
| 12 | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | HS12 ✓ | |

Line 1–16

| | |
|------------------------------|----------------------------------------------------------------------------------------|
| Description | Indicates the line number (1–16) to which a phone number is assigned (reference only). |
| Value Range | Line 1–Line 16 |
| Default Value | Not applicable. |
| Configuration File Reference | INCOMING_CALL_GROUP_n |

Phone Number

| | |
|------------------------------|------------------------------------------------------------------|
| Description | Indicates the currently assigned phone numbers (reference only). |
| Value Range | Max. 32 digits |
| Default Value | Not applicable. |
| Configuration File Reference | INCOMING_CALL_GROUP_n |

Handset Number 1–16

| | |
|------------------------------|----------------------------------------------------------------------|
| Description | Selects the handsets (1–16) that calls will arrive at for each line. |
| Value Range | Selected, Not selected |
| Default Value | Selected (all) |
| Configuration File Reference | INCOMING_CALL_GROUP_n |

3.6.1 Multi Number Settings

Paging

| | |
|------------------------------|------------------------------------------------------------------------------------|
| Description | Selects the handsets (1–16) that calls will arrive (auto answer) at for each line. |
| Value Range | HS1–HS16 |
| Default Value | HS1 |
| Configuration File Reference | PAGING_ENABLE_HANDSET_n |

3.6.1.2 Handset and Line Number select for making call

This screen allows you to assign phone numbers for outgoing calls to the base unit and handsets.

The screenshot shows the 'Multi Number Settings' page of the KX-TGP700 web interface. The left sidebar has a red box around the 'Making Call' option under 'Multi Number Settings'. The main area shows a grid titled 'Handset and Line Number select for making call' with rows for Handsets 1-12 and columns for Line Numbers 1-16. A dropdown menu 'Default' is visible on the right side of the grid.

Handset 1–16

| | |
|---------------|---------------------------------------------------------------------------------|
| Description | Indicates the handsets (1–16) that can be used to make a call (reference only). |
| Value Range | Handset 1 – Handset 16 |
| Default Value | Not applicable. |

Line Number 1–16

| | |
|------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Description | Selects which lines (1–16) can be seized when going off-hook to make a call for the base unit and each handset. |
| Value Range | Selected, Not selected |
| Default Value | Selected (all) |
| Configuration File Reference | OUTGOING_CALL_LINE_HS |

Default

| | |
|-------------|------------------------------------------------------------------------------------------------------------------|
| Description | Selects which line to seize automatically when going off-hook to make a call for the base unit and each handset. |
| Value Range | 1–16 |

| | |
|-------------------------------------|-------------------------|
| Default Value | 1 |
| Configuration File Reference | DEFAULT_LINE_SELECT_HSY |

3.6.2 Call Control

This screen allows you to configure various call features that are common to all lines.

The screenshot shows the Panasonic KX-TGP700 web interface. At the top, there's a navigation bar with tabs: Status, Network, System, VoIP, Telephone (which is highlighted in red), and Maintenance. Below the navigation bar, there's a 'Logout' button and a 'Web Port Close' link. The main content area has a title 'Call Control'. On the left, there's a sidebar with several sections: 'Multi Number Settings' (with 'Receiving Call' and 'Making Call' options), 'Call Control' (which is the current section being viewed and is highlighted with a red box), 'Hotline Settings', 'Tone Settings', 'Import Phonebook', 'Export Phonebook', 'KX-TPA68', and 'Flexible Key Settings'. The 'Call Control' section contains various configuration fields: 'Send SUBSCRIBE to Voice Mail Server' (radio buttons for Yes or No, with 'No' selected), 'Conference Server URI' (text input field), 'First-digit Timeout' (text input field with '30'), 'Inter-digit Timeout' (text input field with '5'), 'Timer for Dial Plan' (text input field with '5'), 'Enable # Key as delimiter' (radio buttons for Yes or No, with 'Yes' selected), 'International Call Prefix' (text input field), 'Country Calling Code' (text input field), 'National Access Code' (text input field), 'Call Park Number' (text input field), and 'Enable Call Park Key' (radio buttons for Yes or No, with 'No' selected).

3.6.2.1 Call Control

Send SUBSCRIBE to Voice Mail Server

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| Description | Selects whether to send the SUBSCRIBE request to a voice mail server. |
| Note | <ul style="list-style-type: none"> Your phone system must support voice mail. |
| Value Range | <ul style="list-style-type: none"> Yes No |
| Default Value | No |
| Configuration File Reference | VM_SUBSCRIBE_ENABLE |

Conference Server URI

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the URI for a conference server, which consists of "sip:", a user part, the "@" symbol, and a host part, for example, "sip:conference@example.com". |
| Note | <ul style="list-style-type: none"> Availability depends on your phone system. |
| Value Range | Max. 256 characters |
| Default Value | Not stored. |
| Configuration File Reference | CONFERENCE_SERVER_URI |

3.6.2 Call Control

First-digit Timeout

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------|
| Description | Specifies the length of time, in seconds, within which the first digits of a dial number must be dialed. |
| Value Range | 1–600 (s) |
| Default Value | 30 |
| Configuration File Reference | FIRSTDIGIT_TIM |

Inter-digit Timeout

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Description | Specifies the length of time, in seconds, within which subsequent digits of a dial number must be dialed. |
| Value Range | 1–15 (s) |
| Default Value | 5 |
| Configuration File Reference | INTDIGIT_TIM |

Timer for Dial Plan

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the length of time, in seconds, that the unit waits when a "T" or "t" has been entered in the dial plan. |
| Value Range | 1–15 (s) |
| Default Value | 5 |
| Configuration File Reference | MACRODIGIT_TIM |

Enable # Key as delimiter

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether the # key is treated as a regular dialed digit or a delimiter, when dialed as or after the second digit. |
| Value Range | <ul style="list-style-type: none">• Yes: # is treated as the end of dialing delimiter.• No: # is treated as a regular dialed digit. |
| Default Value | Yes |
| Configuration File Reference | POUND_KEY_DELIMITER_ENABLE |

International Call Prefix

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the number to be shown in the place of the first "+" symbol when the phone number for incoming international calls contains "+". |
| Value Range | Max. 8 characters (consisting of 0–9, *, and #) |
| Default Value | Not stored. |
| Configuration File Reference | INTERNATIONAL_ACCESS_CODE |

Country Calling Code

| | |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the country/area calling code to be used for comparative purposes when dialing a number from the incoming call log that contains a "+" symbol. |
| Value Range | Max. 8 characters (consisting of 0–9, *, and #) |

| | |
|-------------------------------------|----------------------|
| Default Value | Not stored. |
| Configuration File Reference | COUNTRY_CALLING_CODE |

National Access Code

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | When dialing a number from the incoming call log that contains a "+" symbol and the country calling code matches, the country calling code is removed and the national access code is added. |
| Value Range | Max. 8 characters (consisting of 0–9, *, and #) |
| Default Value | Not stored. |
| Configuration File Reference | NATIONAL_ACCESS_CODE |

Call Park Number

| | |
|-------------------------------------|------------------------------------|
| Description | Specifies the call parking number. |
| Value Range | 0–4 digits (0–9, *, #) |
| Default Value | Not stored. |
| Configuration File Reference | NUM_PLAN_PARKING |

Enable Call Park Key

| | |
|-------------------------------------|-----------------------------------------------------------------------|
| Description | Selects whether to display "Call Park" in the Call Parking Func menu. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | No |
| Configuration File Reference | CALLPARK_KEY_ENABLE |

Park Retrieve Number

| | |
|-------------------------------------|------------------------------------------|
| Description | Specifies the call park retrieve number. |
| Value Range | 0–4 digits (0–9, *, #) |
| Default Value | Not stored. |
| Configuration File Reference | NUM_PLAN_PARK_RETRIEVING |

Park Retrieve Soft Key

| | |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to have soft key for the call park retrieving. |
| Note | <ul style="list-style-type: none"> • This feature is available only when [Enable Call Park Notification] is set to [Yes], and [Park Retrieve Number] is set (see Enable Call Park Notification, Park Retrieve Number). |

3.6.3 Call Control [Line 1]–[Line 16]

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">Not UseSoft Key A (Left)Soft Key B (Center)Soft Key C (Right) |
| Default Value | Not Use |
| Configuration File Reference | IDLE_SOFT_KEY_PARK_RETRIEVING |

Group Call Pickup

| | |
|-------------------------------------|-------------------------------------------------------------|
| Description | Specifies the feature number for performing "Group Pickup". |
| Value Range | 0–4 digits (0–9, *, #) |
| Default Value | Not stored. |
| Configuration File Reference | NUM_PLAN_PICKUP_GROUP |

Private Hold

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to enable or disable "Private Hold". |
| Value Range | <ul style="list-style-type: none">YesNo |
| Note | <ul style="list-style-type: none">(For KX-TPA60/KX-TPA65/KX-TPA68/KX-TPA70/KX-TPA73) If set to "Yes", "Private Hold" is displayed on Soft Key. |
| Default Value | No |
| Configuration File Reference | PRIVATE_HOLD_ENABLE |

3.6.2.2 Emergency Call Phone Numbers

1–5

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the phone numbers used for making emergency calls. A user can dial any of the specified phone numbers at any time regardless of any restrictions imposed on the unit. A maximum of 5 phone numbers can be specified. |
| Value Range | Max. 32 characters (except &, ", :, ;, <, >) |
| Default Value | Not stored. |
| Configuration File Reference | EMERGENCY_CALLx |

3.6.3 Call Control [Line 1]–[Line 16]

This screen allows you to configure various call features that are specific to each line.

The screenshot shows the Panasonic KX-TGP700 web interface. The top navigation bar includes links for Status, Network, System, VoIP, Telephone (which is highlighted in red), and Maintenance. The main content area is titled "Call Control [Line 1]". On the left, a sidebar under the "Telephone" heading has a "Call Control" section with options for Line 1 through Line 10. A red box surrounds the "Call Control" section in the sidebar. The right side contains a "Call Features" table with the following rows:

| Call Features | |
|----------------------------------|---------------------------------------------------------------|
| Display Name | <input type="text"/> |
| Voice Mail Access Number | <input type="text"/> |
| Enable Anonymous Call | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Enable Block Anonymous Call | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Enable Do Not Disturb | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Enable Call Waiting | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| Enable Call Forwarding Always | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Forwarding Number (Always) | <input type="text"/> |
| Enable Call Forwarding Busy | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Forwarding Number (Busy) | <input type="text"/> |
| Enable Call Forwarding No Answer | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Forwarding Number (No Answer) | <input type="text"/> |

3.6.3.1 Call Features

Display Name

| | |
|------------------------------|----------------------------------------------------------------------------------------------------|
| Description | Specifies the name to display as the caller on the other party's phone when you make a call. |
| Value Range | Max. 24 characters |
| Note | <ul style="list-style-type: none"> You can use Unicode characters for this setting. |
| Default Value | Not stored. |
| Configuration File Reference | DISPLAY_NAME_n |

Voice Mail Access Number

| | |
|------------------------------|----------------------------------------------------------------------------------------------|
| Description | Specifies the phone number used to access the voice mail server. |
| Note | <ul style="list-style-type: none"> Your phone system must support voice mail. |
| Value Range | Max. 32 characters |
| Default Value | Not stored. |
| Configuration File Reference | VM_NUMBER_n |

Enable Anonymous Call

| | |
|-------------|------------------------------------------------------------------------------------------|
| Description | Selects whether to make calls without transmitting the phone number to the called party. |
|-------------|------------------------------------------------------------------------------------------|

3.6.3 Call Control [Line 1]–[Line 16]

| | |
|-------------------------------------|--------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | ANONYMOUS_CALL_ENABLE_n |

Enable Block Anonymous Call

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------|
| Description | Selects whether to accept or reject the incoming call without the called party's phone number. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | BLOCK_ANONYMOUS_CALL_ENABLE_n |

Enable Do Not Disturb

| | |
|----------------------|--------------------------------------------------------------------|
| Description | Selects whether to reject the all incoming calls. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |

Enable Call Waiting

| | |
|-------------------------------------|--------------------------------------------------------------------|
| Description | Selects whether to enable Call Waiting. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | Yes |
| Configuration File Reference | CW_ENABLE_n |

Enable Call Forwarding Always

| | |
|----------------------|---------------------------------------------------------------------------|
| Description | Selects whether to forward all incoming calls to a specified destination. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |

Forwarding Number (Always)

| | |
|----------------------|---------------------------------------------------------------------------------|
| Description | Specifies the phone number of the destination to forward all incoming calls to. |
| Value Range | Max. 32 characters |
| Default Value | Not stored. |

Enable Call Forwarding Busy

| | |
|----------------------|-----------------------------------------------------------------------------------------------|
| Description | Selects whether to forward incoming calls to a specified destination when the line is in use. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | No |

Forwarding Number (Busy)

| | |
|----------------------|--------------------------------------------------------------------------------------------|
| Description | Specifies the phone number of the destination to forward calls to when the line is in use. |
| Value Range | Max. 32 characters |
| Default Value | Not stored. |

Enable Call Forwarding No Answer

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to forward incoming calls to a specified destination when a call is not answered after it has rung a specified number of times. |
| Value Range | <ul style="list-style-type: none"> • Yes • No |
| Default Value | No |

Forwarding Number (No Answer)

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the phone number of the destination to forward calls to when a call is not answered after it has rung a specified number of times. |
| Value Range | Max. 32 characters |
| Default Value | Not stored. |

Ring Counts (No Answer)

| | |
|----------------------|----------------------------------------------------------------------------------------|
| Description | Specifies the number of times that an incoming call rings until the call is forwarded. |
| Value Range | 0, 2–20 |
| Default Value | 3 |

Enable Shared Call

| | |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to enable the Shared Call feature of the SIP server, which is used to share one line among the units. |
| Note | <ul style="list-style-type: none"> • Availability depends on your phone system. |

3.6.3 Call Control [Line 1]–[Line 16]

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Note | |
| | <ul style="list-style-type: none">• If you select [Yes], the SIP server will control the line by using a shared-call signaling method. If you select [No], the SIP server will control the line by using a standard signaling method. |
| Default Value | No |
| Configuration File Reference | SHARED_CALL_ENABLE_n |

Enable Key Synchronization

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to synchronize the Do Not Disturb and Call Forward settings. |
| Note | |
| | <ul style="list-style-type: none">• Even if you select [Yes], this feature may not function properly if your phone system does not support it. Before you configure this setting, consult your phone system dealer/service provider. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | FWD_DND_SYNCHRO_ENABLE_n |

Enable Call Park Notification

| | |
|-------------------------------------|------------------------------------------------------------------------|
| Description | Selects whether to respond to call park notifications from the server. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | CALLPARK_NOTIFICATION_ENABLE_n |

Enable Click to Call

| | |
|-------------------------------------|--------------------------------------------------------------------|
| Description | Selects whether to enable Click to Dial/Answer/Hold functions. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | CLICKTO_ENABLE_n |

MoH Server URI

| | |
|----------------------|-----------------------------------------|
| Description | Specifies MoH server URI for each line. |
| Value Range | Max. 384 characters |
| Default Value | Not stored. |

| | |
|-------------------------------------|------------------|
| Configuration File Reference | MOH_SERVER_URI_n |
|-------------------------------------|------------------|

3.6.3.2 Dial Plan

Dial Plan (max 1000 columns)

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies a dial format, such as specific phone numbers, that control which numbers can be dialed or how to handle the call when making a call. For details, see 5.3 Dial Plan . |
| Value Range | Max. 1000 characters |
| Default Value | Not stored. |
| Configuration File Reference | DIAL_PLAN_n |

Call Even If Dial Plan Does Not Match

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to make a call even if the dialed number does not match any of the dial formats specified in [Dial Plan] . |
| Value Range | <ul style="list-style-type: none"> • Yes • No <p>Note</p> <ul style="list-style-type: none"> • If you select [Yes], calls will be made even if the dialed number does not match the dial formats specified in [Dial Plan] (i.e., dial plan filtering is disabled). If you select [No], calls will not be made if the dialed number does not match one of the dial formats specified in [Dial Plan] (i.e., dial plan filtering is enabled). |
| Default Value | Yes |
| Configuration File Reference | DIAL_PLAN_NOT_MATCH_ENABLE_n |

3.6.3.3 Call Rejection Phone Numbers

1–20

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------|
| Description | Specifies the phone numbers to reject incoming calls from. A maximum of 20 phone numbers can be specified. |
| Value Range | Max. 32 characters (except &, ', :, ;, <, >) |
| Default Value | Not stored. |
| Configuration File Reference | CALL_REJECTIONx_n |

3.6.4 Hotline Settings

This screen allows you to assign the Hot line for each handset.

3.6.5 Tone Settings

The screenshot shows the Panasonic KX-TGP700 web interface. At the top, there is a navigation bar with tabs: Status, Network, System, VoIP, Telephone (which is highlighted with a red box), and Maintenance. Below the navigation bar, there are two buttons: Logout and Web Port Close. On the left side, there is a sidebar with a tree-like menu structure under the 'Telephone' heading. The 'Hotline Settings' item is highlighted with a red box. Other items in the sidebar include Multi Number Settings, Receiving Call, Making Call, Call Control, Line, Tone Settings, Import Phonebook, Export Phonebook, and KX-TPA68. Under KX-TPA68, there are Flexible Key Settings and Handset. The main content area is titled 'Hotline Settings'. It contains a table titled 'Hotline' with six rows, each corresponding to a handset (Handset 1 to Handset 6). Each row has two columns: 'Enable' (with radio buttons for Yes or No) and 'Hotline Number' (with an input field). The 'Hotline' table is also highlighted with a red box.

3.6.4.1 Hotline

Handset 1–16 Enable

| | |
|------------------------------|--------------------------------------------------------------------|
| Description | Selects whether to enable or disable the Hot line feature. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | HOTLINE_ENABLE_HSy |

Handset 1–16 Hotline Number

| | |
|------------------------------|--------------------------------|
| Description | Specifies the Hot line number. |
| Value Range | Max. 32 characters |
| Default Value | Not stored. |
| Configuration File Reference | HOTLINE_NUMBER_HSy |

Hotline Delay

| | |
|------------------------------|-----------------------------------------------|
| Description | Specifies a time after off hook for Hot line. |
| Value Range | 0–10 (s) |
| Default Value | 2 |
| Configuration File Reference | HOTLINE_TIM |

3.6.5 Tone Settings

This screen allows you to configure the dual-tone frequencies and ringtone patterns of each tone.

The screenshot shows the Panasonic KX-TGP700 web interface. The top navigation bar includes links for Status, Network, System, VoIP, Telephone (which is highlighted in red), and Maintenance. The main content area is titled "Tone Settings". On the left, there's a sidebar with various menu items like Multi Number Settings, Receiving Call, Making Call, Call Control, Line, Hotline Settings (with "Tone Settings" highlighted in red), Import Phonebook, Export Phonebook, KX-TPA68, Flexible Key Settings, and Handset. The "Tone Settings" section contains several sub-sections: Dial Tone, Busy Tone, Ringing Tone, Stutter Tone, and Reorder Tone, each with input fields for Tone Frequencies and Tone Timings.

3.6.5.1 Dial Tone

Tone Frequencies

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the dual-tone frequencies, in hertz, of dial tones using 2 whole numbers separated by a comma. |
| Value Range | 0, 200–2000 (0: No tone) |
| Note | <ul style="list-style-type: none"> If the value for this setting is "350,440", the unit will use a mixed signal of a 350 Hz tone and a 440 Hz tone. |
| Default Value | 350,440 |
| Configuration File Reference | DIAL_TONE1_FRQ |

Tone Timings

| | |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the pattern, in milliseconds, of dial tones using up to 10 whole numbers (off 1, on 1, off 2, on 2...) separated by commas. |
| Note | <ul style="list-style-type: none"> The unit will not play the tone for the duration of the first value, play it for the duration of the second value, stop it for the duration of the third value, play it again for the duration of the fourth value, and so on. The whole sequence will then repeat. For example, if the value for this setting is "100,100,100,0", the unit will not play the tone for 100 ms, play it for 100 ms, stop it for 100 ms, and then play it continuously. It is recommended that you set a value of 60 milliseconds or more for the first value (off 1). |

3.6.5 Tone Settings

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------|
| Value Range | 0–16000 (0: Infinite time) |
| Note | <ul style="list-style-type: none">Avoid setting 1–50 for any of the values. |
| Default Value | 60,0 |
| Configuration File Reference | DIAL_TONE1_TIMING |

3.6.5.2 Busy Tone

Tone Frequencies

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the dual-tone frequencies, in hertz, of busy tones using 2 whole numbers separated by a comma. |
| Value Range | 0, 200–2000 (0: No tone) |
| Note | <ul style="list-style-type: none">If the value for this setting is "480,620", the unit will use a mixed signal of a 480 Hz tone and a 620 Hz tone. |
| Default Value | 480,620 |
| Configuration File Reference | BUSY_TONE_FRQ |

Tone Timings

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the pattern, in milliseconds, of busy tones using up to 10 whole numbers (off 1, on 1, off 2, on 2...) separated by commas. |
| Value Range | 0–16000 (0: Infinite time) |
| Note | <ul style="list-style-type: none">Avoid setting 1–50 for any of the values. |
| Default Value | 60,500,440 |
| Configuration File Reference | BUSY_TONE_TIMING |

3.6.5.3 Ringing Tone

Tone Frequencies

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the dual-tone frequencies, in hertz, of ringback tones using 2 whole numbers separated by a comma. |
| Value Range | 0, 200–2000 (0: No tone) |
| Note | <ul style="list-style-type: none">If the value for this setting is "440,480", the unit will use a mixed signal of a 440 Hz tone and a 480 Hz tone. |
| Default Value | 440,480 |
| Configuration File Reference | RINGBACK_TONE_FRQ |

Tone Timings

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the pattern, in milliseconds, of ringback tones using up to 10 whole numbers (off 1, on 1, off 2, on 2...) separated by commas. |
| Note | <ul style="list-style-type: none"> It is recommended that you set a value of 60 milliseconds or more for the first value (off 1). |
| Value Range | 0–16000 (0: Infinite time) |
| Note | <ul style="list-style-type: none"> Avoid setting 1–50 for any of the values. |
| Default Value | 60,2000,3940 |
| Configuration File Reference | RINGBACK_TONE_TIMING |

3.6.5.4 Stutter Tone

Tone Frequencies

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the dual-tone frequencies, in hertz, of stutter dial tones to notify that a voice mail is waiting, using 2 whole numbers separated by a comma. |
| Value Range | 0, 200–2000 (0: No tone) |
| Note | <ul style="list-style-type: none"> If the value for this setting is "350,440", the unit will use a mixed signal of a 350 Hz tone and a 440 Hz tone. |
| Default Value | 350,440 |
| Configuration File Reference | DIAL_TONE4_FRQ |

Tone Timings

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the pattern, in milliseconds, of stutter dial tones to notify that a voice mail is waiting, using up to 22 whole numbers (off 1, on 1, off 2, on 2...) separated by commas. |
| Note | <ul style="list-style-type: none"> It is recommended that you set a value of 560 milliseconds or more for the first value (off 1). |
| Value Range | 0–16000 (0: Infinite time) |
| Note | <ul style="list-style-type: none"> Avoid setting 1–50 for any of the values. |
| Default Value | 560,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,0 |
| Configuration File Reference | DIAL_TONE4_TIMING |

3.6.5.5 Reorder Tone

Tone Frequencies

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the dual-tone frequencies, in hertz, of reorder tones using 2 whole numbers separated by a comma. |
| Value Range | 0, 200–2000 (0: No tone) |
| | <p>Note</p> <ul style="list-style-type: none"> If the value for this setting is "480,620", the unit will use a mixed signal of a 480 Hz tone and a 620 Hz tone. |
| Default Value | 480,620 |
| Configuration File Reference | REORDER_TONE_FRQ |

Tone Timings

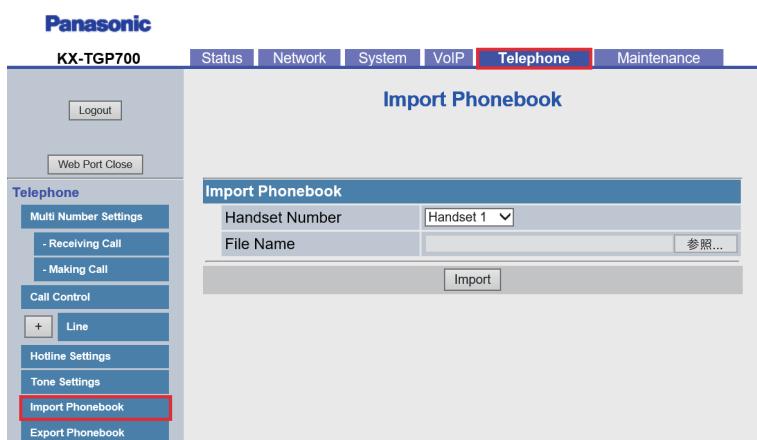
| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the pattern, in milliseconds, of reorder tones using up to 10 whole numbers (off 1, on 1, off 2, on 2...) separated by commas. |
| | <p>Note</p> <ul style="list-style-type: none"> It is recommended that you set a value of 60 milliseconds or more for the first value (off 1). |
| Value Range | 0–16000 (0: Infinite time) |
| Default Value | 60,250,190 |
| | <p>Note</p> <ul style="list-style-type: none"> Avoid setting 1–50 for any of the values. |
| Configuration File Reference | REORDER_TONE_TIMING |

3.6.6 Import Phonebook

This screen allows you to import phonebook data from a PC to the specified unit. For details, see [5.2.1 Import/Export Operation](#).

Note

- If the existing phonebook data has an entry with the same name and phone number as an imported entry, the imported entry is not added as a new entry.
- When you begin transferring the phonebook data, the "Now Processing File Data" screen is displayed, and the screen is periodically reloaded. Depending on your Web browser, the screen might not reload automatically, and you will need to click the text "HERE" before the timer expires in order for the import operation to function properly.



3.6.6.1 Import Phonebook

Handset Number

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects the handset to import the phonebook entries to. |
| Value Range | <ul style="list-style-type: none"> • Handset 1 • Handset 2 • Handset 3 • Handset 4 • Handset 5 • Handset 6 • Handset 7 • Handset 8 • Handset 9 • Handset 10 • Handset 11 • Handset 12 • Handset 13 • Handset 14 • Handset 15 • Handset 16 |
| Default Value | Handset 1 |

File Name

| | |
|--------------------|---------------------------------------------------------------------------------|
| Description | Specifies the path of the TSV (Tab-separated Value) file to import from the PC. |
|--------------------|---------------------------------------------------------------------------------|

3.6.7 Export Phonebook

| | |
|----------------------|---------------|
| Value Range | No limitation |
| Note | |
| Default Value | Not stored. |

3.6.7 Export Phonebook

This screen allows you to save the phonebook data stored in the unit as a TSV file on a PC. For details, see [5.2.1 Import/Export Operation](#).

Note

- When you begin transferring the phonebook data, the "Now Processing File Data" screen is displayed, and the screen is periodically reloaded. Click the text "HERE" in the message to display the **[Export Phonebook]** screen again. If you do not, the "Now Processing File Data" screen remains displayed even if the export is complete. Depending on your Web browser, the screen might not reload automatically, and you will need to click the text "HERE" before the timer expires in order for the export operation to function properly.
- Depending on the security settings of your Web browser, pop-up menus might be blocked at the time of export. The security warning window may be displayed on another screen even if the Pop-up Blocker settings are set to enable, and the file may not be exported successfully. In this case, try the export operation again or disable the Pop-up Blocker feature of your Web browser.



3.6.7.1 Export Phonebook

Handset Number

| | |
|--------------------|------------------------------------------------------|
| Description | Selects which handset to export phonebook data from. |
|--------------------|------------------------------------------------------|

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • Handset 1 • Handset 2 • Handset 3 • Handset 4 • Handset 5 • Handset 6 • Handset 7 • Handset 8 • Handset 9 • Handset 10 • Handset 11 • Handset 12 • Handset 13 • Handset 14 • Handset 15 • Handset 16 |
| Default Value | Handset 1 |

3.6.8 Flexible Key Settings for KX-TPA68

This screen allows you to change the Flexible Key Settings for KX-TPA68.

| No. | Type | Parameter | Label Name |
|-----|------|-----------|------------|
| 1 | None | | |
| 2 | None | | |
| 3 | None | | |
| 4 | None | | |
| 5 | None | | |
| 6 | None | | |
| 7 | None | | |
| 8 | None | | |
| 9 | None | | |
| 10 | None | | |
| 11 | None | | |
| 12 | None | | |

3.6.8.1 Flexible Key Settings for KX-TPA68 (No.1–12)

Type

| | |
|--------------------|----------------------------------------------------------------------------|
| Description | Selects which feature to assign to each flexible key on page 2 and page 3. |
|--------------------|----------------------------------------------------------------------------|

3.7 Maintenance

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• None• Line Notification (Simultaneous monitoring lines are limited maximum 8)• One Touch Dial• Directed Call Pickup• Call Park• Call Park Retrieve• Group Call Pickup• Paging• Presence• My Phone• Memo Alarm• Intercom |
| Default Value | Not stored. |
| Configuration File Reference | FLEX_BUTTON_FACILITY_HSx_ACTx (For KX-TPA68) |

Parameter

| | |
|-------------------------------------|------------------------------------------------------------------------------------|
| Description | Specifies the necessary parameters for the features assigned to the flexible keys. |
| Value Range | Max. 32 characters |
| Default Value | Not stored. |
| Configuration File Reference | FLEX_BUTTON_FACILITY_HSx_ARGx (For KX-TPA68) |

Label Name

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| Description | Specifies the message to display on the screen when a flexible key on page 2 and page 3 is pressed. |
| Value Range | Max. 20 characters |
| Default Value | Not stored. |
| Configuration File Reference | FLEX_BUTTON_FACILITY_HSx_LABELx (For KX-TPA68) |

3.7 Maintenance

This section provides detailed descriptions about all the settings classified under the [Maintenance] tab.

3.7.1 Provisioning Maintenance

This screen allows you to change the provisioning setup to download the configuration files from the provisioning server of your phone system.

3.7.1.1 Provisioning Maintenance

Standard File URL

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the URL of the standard configuration file, which is used when every unit needs different settings. |
| Value Range | Max. 384 characters |
| Note | <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Not stored. |
| Configuration File Reference | CFG_STANDARD_FILE_PATH |

Product File URL

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the URL of the product configuration file, which is used when all units with the same model number need the same settings. |
| Value Range | Max. 384 characters |
| Note | <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Not stored. |
| Configuration File Reference | CFG_PRODUCT_FILE_PATH |

Master File URL

| | |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the URL of the master configuration file, which is used when all units need the same settings. |
| Value Range | Max. 384 characters |
| Note | <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |

3.7.2 Firmware Maintenance

| | |
|-------------------------------------|----------------------|
| Default Value | Not stored. |
| Configuration File Reference | CFG_MASTER_FILE_PATH |

Cyclic Auto Resync

| | |
|-------------------------------------|----------------------------------------------------------------------------------|
| Description | Selects whether the unit periodically checks for updates of configuration files. |
| Value Range | <ul style="list-style-type: none">• Yes• No |
| Default Value | No |
| Configuration File Reference | CFG_CYCLIC |

Resync Interval

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| Description | Specifies the interval, in minutes, between periodic checks for updates of the configuration files. |
| Value Range | 1–40320 |
| Default Value | 10080 |
| Configuration File Reference | CFG_CYCLIC_INTVL |

Time Resync

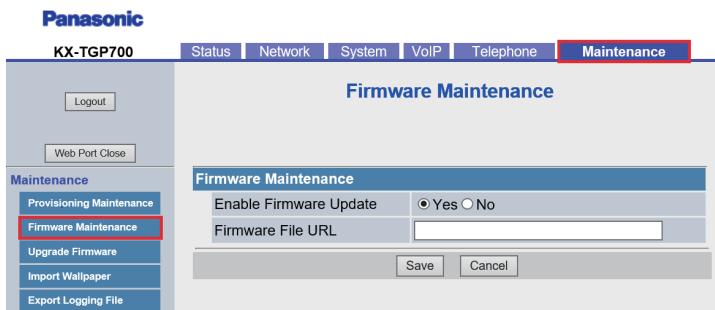
| | |
|-------------------------------------|-------------------------------------------------------------------------------------------|
| Description | Specifies the time (hour:minute) that the unit checks for updates of configuration files. |
| Value Range | 00:00–23:59 |
| Default Value | Not stored. |
| Configuration File Reference | CFG_RESYNC_TIME |

Header Value for Resync Event

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the value of the "Event" header sent from the SIP server to the unit so that the unit can access the configuration files on the provisioning server. |
| Value Range | Max. 15 characters |
| Default Value | check-sync |
| Configuration File Reference | CFG_RESYNC_FROM_SIP |

3.7.2 Firmware Maintenance

This screen allows you to perform firmware updates automatically or manually.



3.7.2.1 Firmware Maintenance

Enable Firmware Update

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects whether to perform firmware updates when the unit detects a newer version of firmware. |
| Note | <ul style="list-style-type: none"> Local firmware updates from the Web user interface (→ see 3.7.3 Upgrade Firmware) can be performed regardless of this setting. Firmware updates using TR-069 can be performed regardless of this setting. |
| Value Range | <ul style="list-style-type: none"> Yes No |
| Default Value | Yes |
| Configuration File Reference | FIRM_UPGRADE_ENABLE |

Firmware File URL

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the URI where the firmware file is stored. |
| Note | <ul style="list-style-type: none"> This setting is available only when [Enable Firmware Update] is set to [Yes]. |
| Value Range | Max. 384 characters |
| Note | <ul style="list-style-type: none"> If "{fwver}" is included in this parameter, it will be replaced with the value specified in [Firmware Version]. For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Not stored. |
| Configuration File Reference | FIRM_FILE_PATH |

3.7.3 Upgrade Firmware

This screen allows you to download the Upgrade Firmware data from a PC.

3.7.4 Import Wallpaper

Note

- After the firmware has been successfully updated, the unit will restart automatically.

Panasonic

KX-TGP700

Status | Network | System | VoIP | Telephone | Maintenance

Logout | Web Port Close

Maintenance

Provisioning Maintenance

Firmware Maintenance

Upgrade Firmware

Import Wallpaper

Export Logging File

Upgrade Firmware

Import Wallpaper

Update Firmware

3.7.3.1 Upgrade Firmware

File Name

| | |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the path of the firmware file to be imported. |
| Value Range | No limitation Note <ul style="list-style-type: none">There are no limitations for the field entry. However, it is recommended that paths of less than 256 characters be used: longer paths may cause longer data transfer times and result in an internal error. |
| Default Value | Not stored. |

3.7.4 Import Wallpaper

This screen allows you to import the Wallpaper data from a PC.

Panasonic

KX-TGP700

Status | Network | System | VoIP | Telephone | Maintenance

Logout | Web Port Close

Maintenance

Provisioning Maintenance

Firmware Maintenance

Upgrade Firmware

Import Wallpaper

Export Logging File

Reset to Defaults

Restart

DECT Monitoring

Call Status Monitoring

TPA60/65, UDT121,131

Gradation Type Dark Light

File Name

Import

TPA68

File Name

Import

TPA70/73

Gradation Type Dark Light

File Name

Import

3.7.4.1 TPA60/65, UDT121,131

Gradation Type

| | |
|-------------|-------------------------------------|
| Description | Selects the Gradation Type setting. |
|-------------|-------------------------------------|

| | |
|----------------------|---------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • Dark • Light |
| Default Value | Dark |

File Name

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the path of the Wallpaper file to import from the PC. |
| Value Range | No limitation |
| Note | <ul style="list-style-type: none"> • There are no limitations for the field entry. However, it is recommended that paths of less than 256 characters be used: longer paths may cause longer data transfer times and result in an internal error. |
| Default Value | Not stored. |

3.7.4.2 TPA68

File Name

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the path of the Wallpaper file to import from the PC. |
| Value Range | No limitation |
| Note | <ul style="list-style-type: none"> • There are no limitations for the field entry. However, it is recommended that paths of less than 256 characters be used: longer paths may cause longer data transfer times and result in an internal error. |
| Default Value | Not stored. |
| Configuration File Reference | DISPLAY_WALLPAPER_TPA68_PATH (For KX-TPA68) |

3.7.4.3 TPA70/73

Gradation Type

| | |
|----------------------|---------------------------------------------------------------------------|
| Description | Selects the Gradation Type setting. |
| Value Range | <ul style="list-style-type: none"> • Dark • Light |
| Default Value | Dark |

File Name

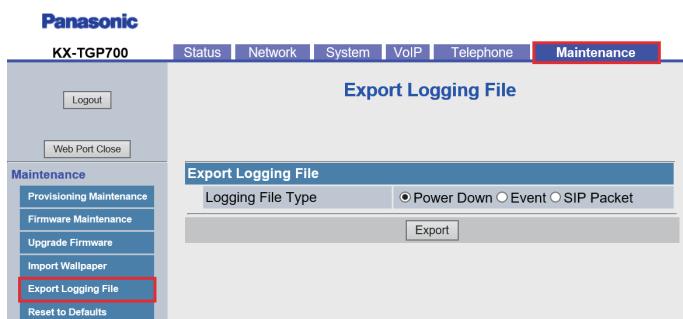
| | |
|--------------------|-----------------------------------------------------------------|
| Description | Specifies the path of the Wallpaper file to import from the PC. |
|--------------------|-----------------------------------------------------------------|

3.7.5 Export Logging File

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | No limitation |
| Note | <ul style="list-style-type: none">There are no limitations for the field entry. However, it is recommended that paths of less than 256 characters be used: longer paths may cause longer data transfer times and result in an internal error. |
| Default Value | Not stored. |

3.7.5 Export Logging File

This screen allows you to specify the Logging File to export when logging.



3.7.5.1 Export Logging File

Logging File Type

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Selects the Logging File Type setting. |
| Value Range | <ul style="list-style-type: none">Power DownEventSIP Packet |
| Note | <ul style="list-style-type: none">The line break code for the log file is <LF>.If a file is exported when Power Down is selected, the saved file is power.log.If a file is exported when Event is selected, the saved file is event_log.txt.If a file is exported when SIP Packet is selected, the saved file is sip_trace_log.txt. |
| Default Value | Power Down |

3.7.6 Reset to Defaults

This screen allows you to reset the carrier default settings made through the Web user interface to their default values by clicking [Reset to Carrier Defaults]. After you click this button, a dialog box is displayed, asking whether you want to reset the settings. Click **OK** to reset, or **Cancel** not to.

Notice

- After resetting the settings, the unit will restart even if it is being accessed through the phone user interface, or on calls.

Note

- You can specify carrier default using configuration parameter extensions. Those parameters will be reset to the specified carrier default values (see **Parameter Extensions**).

Panasonic

KX-TGP700 Status Network System VoIP Telephone Maintenance

Logout Web Port Close

Maintenance

- Provisioning Maintenance
- Firmware Maintenance
- Upgrade Firmware
- Import Wallpaper
- Export Logging File
- Reset to Defaults**
- Restart

Reset to Defaults

Reset to Carrier Defaults

The following settings will be reset to carrier default values when you click [Reset to Carrier Defaults].

[Reset to Carrier Defaults]

3.7.7 Restart

This screen allows you to restart the unit by clicking [**Restart**] or [**Restart (Graceful)**]. After you click this button, a dialog box is displayed, asking whether you want to restart the unit. Click **OK** to perform a restart, or **Cancel** not to.

Panasonic

KX-TGP700 Status Network System VoIP Telephone Maintenance

Logout Web Port Close

Maintenance

- Provisioning Maintenance
- Firmware Maintenance
- Upgrade Firmware
- Import Wallpaper
- Export Logging File
- Reset to Defaults
- Restart**
- DECT Monitoring
- Call Status Monitoring

Restart

Restart

Click [Restart] to proceed. Restarting will take a few moments.

[Restart]

Restart (Graceful)

Click [Restart (Graceful)] to proceed. Restart takes place when phone status is idle. If it is busy, phone waits to become idle then restarts. Restarting will take a few moments.

[Restart (Graceful)]

3.7.7.1 Restart

Notice

- The unit will restart even if it is being accessed through the phone user interface, or on calls.

3.7.7.2 Restart (Graceful)

Notice

- The unit will not restart if it is being accessed through the phone user interface, or on calls. If it is busy, phone waits to become idle then restarts.

3.7.8 DECT Monitoring

This screen displays the results of DECT monitoring when DECT monitoring is executed.

3.7.9 Call Status Monitoring

Note

- This feature is available only when logging in to the Web user interface with the administrator account.

The screenshot shows the 'DECT Monitoring' page of the Panasonic KX-TGP700 web interface. The left sidebar has a 'Maintenance' section with several links: Provisioning Maintenance, Firmware Maintenance, Upgrade Firmware, Import Wallpaper, Export Logging File, Reset to Defaults, Restart, DECT Monitoring (which is highlighted with a red box), and Call Status Monitoring. The main content area is titled 'DECT Monitoring' and contains a table titled 'Handset Status'. The table has columns for Handset, Status, IPEI, Model, Handset Name, Response, Date, Battery, Antenna, Charging, and Registered Base Unit. Data for nine handsets is listed:

| Handset | Status | IPEI | Model | Handset Name | Response | Date | Battery | Antenna | Charging | Registered Base Unit |
|---------|----------------|--------------|-------|--------------|-------------|------|---------|---------|----------|----------------------|
| HS 1 | Registered | 105400435657 | TPA60 | Handset 1 | No response | | | | | |
| HS 2 | Registered | 105560488979 | TPA60 | Handset 2 | No response | | | | | |
| HS 3 | Not registered | | | | | | | | | |
| HS 4 | Not registered | | | | | | | | | |
| HS 5 | Not registered | | | | | | | | | |
| HS 6 | Not registered | | | | | | | | | |
| HS 7 | Not registered | | | | | | | | | |
| HS 8 | Not registered | | | | | | | | | |
| HS 9 | Not registered | | | | | | | | | |

3.7.8.1 Handset Status

Handset Status

| | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Indicates the DECT status of each handset (reference only). |
| Value Range | <p>Handset HS 1-16</p> <ul style="list-style-type: none">Status: Registered, Not registeredIPEIModelHandset NameResponse: Responded, No response, BusyDateBattery: 0, 1, 2, 3Antenna: 0, 1, 2, 3Charging: Yes, NoRegistered Base Unit: 1, 2, 3, 4 |

3.7.9 Call Status Monitoring

This screen displays the status of each handset.

Clicking [Refresh] updates the information displayed on the screen.

| Handset | Call Status(Main) | Call Status(Sub) |
|---------|-------------------|------------------|
| HS 1 | | |
| HS 2 | | |
| HS 3 | | |
| HS 4 | | |
| HS 5 | | |
| HS 6 | | |
| HS 7 | | |
| HS 8 | | |
| HS 9 | | |

| | |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | <p>Indicates the call status of each handset (HS 1-16) that is registered to the base unit (reference only). If there are two calls, the statuses are indicated in "Call Status(Main)" and "Call Status(Sub)".</p> <p>Note</p> <ul style="list-style-type: none"> This function is available when you are logged in as "Administrator". |
| Value Range | <ul style="list-style-type: none"> DIAL_TONE OUTGOING INCOMING TALK HOLD BUSYREORDER INTERCOM <p>Note</p> <ul style="list-style-type: none"> "DIAL_TONE" is displayed when a user has gone off-hook to make a call. "BUSYREORDER" is displayed when a busy tone or a reorder tone is being received. |

3.7.9 Call Status Monitoring

Section 4

Configuration File Programming

This section provides information about the configuration parameters used in the configuration files.

4.1 Configuration File Parameter List

The following tables show all the parameters that can be programmed using configuration file programming. For details about each parameter, see the reference pages listed.

For details about configuration file specifications, see [2.4 Configuration File Specifications](#).

System Settings

| Parameter Name | Ref. |
|------------------------------------------------|----------|
| MULTI_NUMBER_ENABLE | page 184 |
| WIDEBAND_AUDIO_ENABLE | page 184 |
| FACTORY_RESET_ENABLE | page 184 |
| SIP_TRUNK_MODE_ENABLE ¹ | page 185 |
| SIP_NON_REGISTER_ENABLE ¹ | page 185 |
| RTP_KEEP_ENABLE ¹ | page 185 |
| FWD_DND_MENU_ENABLE | page 186 |
| BLOCK_ANONY_MENU_ENABLE | page 186 |
| ANONY_CALL_MENU_ENABLE | page 186 |
| TIME_ZONE_SET_ENABLE | page 186 |
| AUTO_INPUT_KEY_TIME | page 186 |
| CALL_SETTINGS_MENU_ENABLE | page 187 |
| DISCLOSE_FUNCTION_ENABLE | page 187 |
| VM_FUNCTION_ENABLE | page 187 |
| DELAY_RING_TIME_n | page 187 |
| OFF_HOOK_MONITOR_ENABLE | page 187 |
| PRIVATE_HOLD_ENABLE ¹ | page 188 |
| CONF_OWNER_OUT_ENABLE | page 188 |
| PCAP_ENABLE | page 188 |
| PCAP_REMOTE_ID | page 188 |
| PCAP_REMOTE_PASS | page 189 |
| PCAP_REMOTE_PORT | page 189 |
| DTMF_OUT_ENABLE | page 189 |
| CANCEL_OPERATION_MODE | page 189 |
| RANGE_ALARM_ENABLE | page 189 |
| NOTIFICATION_MENU_ENABLE | page 189 |
| NOTIFY_MISSED_CALL_ENABLE_HSY ² | page 190 |
| NOTIFY_VOICEMAIL_ENABLE_HSY ² | page 190 |
| NOTIFY_MISSED_CALL_LED_ENABLE_HSY ² | page 190 |
| NOTIFY_VOICEMAIL_LED_ENABLE_HSY ² | page 191 |

| Parameter Name | Ref. |
|------------------------------------------------|----------|
| NOTIFY_VOICEMAIL_ALARM_ENABLE_HSy ² | page 191 |
| NOTIFICATION_ALARM_TYPE | page 191 |
| BOOTLOG_SERVER_URI | page 192 |
| NOISE_SUPPRESSOR_ENABLE | page 192 |
| CODEC_VAD_CNG_ENABLE | page 192 |
| ERROR_AUTO_REBOOT_TIME | page 192 |
| BLOCK_CID_MENU_ENABLE | page 192 |
| LCD_BACKLIGHT_STBY_MENU_ENABLE | page 193 |
| BOOTLOG_CYCLIC_INTVL | page 193 |
| FULL_CHARGE_LED_ON_ENABLE | page 193 |
| POWER_ON_ENABLE | page 193 |
| EQUALIZER_TYPE | page 194 |
| VOICE_MODE | page 194 |
| HOME_DISPLAY_PAGE_HSy | page 194 |
| HOME_DISPLAY_AUTO_HSy | page 194 |
| HOME_DISPLAY_AUTO_MODE_HSy | page 194 |
| LINE_STATUS_PRIORITY_MODE | page 195 |
| MULTI_LINE_RING_SPLASH_ENABLE | page 195 |
| SHOW_FWD_ICON_ALL_SETTING | page 195 |
| KEY_OPTION_MENU_ENABLE | page 195 |
| PROGRAM_KEY_MENU_ENABLE | page 196 |
| SOFT_KEY_EDIT_MENU_ENABLE | page 196 |
| CARRIER_RST_CERT_CLR_ENABLE | page 196 |
| PHONE_NUM_DIGITS_ON_LIK | page 196 |
| BOOTLOG_FORMAT | page 196 |

Handset Registration Settings

| Parameter Name | Ref. |
|---------------------------|----------|
| IPEI_HSy | page 197 |
| IPEI_AUTOREGMODE_ENABLE | page 197 |
| IPEI_RESTRICTION_ENABLE | page 197 |
| NEXT_REGISTERED_HS_NUMBER | page 197 |
| IPEI_CHANGE_HS_ENABLE | page 198 |

Basic Network Settings

| Parameter Name | Ref. |
|--------------------------------------|----------|
| IP_ADDR_MODE ^{*2} | page 198 |
| CONNECTION_TYPE ^{*2} | page 198 |
| STATIC_IP_ADDRESS ^{*2} | page 199 |
| STATIC_SUBNET ^{*2} | page 199 |
| STATIC_GATEWAY ^{*2} | page 199 |
| USER_DNS1_ADDR ^{*2} | page 200 |
| USER_DNS2_ADDR ^{*2} | page 200 |
| DHCP_DNS_ENABLE ^{*2} | page 200 |
| DHCP_HOST_NAME ^{*1} | page 200 |
| DHCP_VENDOR_CLASS | page 201 |
| CONNECTION_TYPE_IPV6 ^{*2} | page 201 |
| STATIC_IP_ADDRESS_IPV6 ^{*2} | page 201 |
| PREFIX_IPV6 ^{*2} | page 201 |
| STATIC_GATEWAY_IPV6 ^{*2} | page 202 |
| USER_DNS1_ADDR_IPV6 ^{*2} | page 202 |
| USER_DNS2_ADDR_IPV6 ^{*2} | page 202 |
| DHCP_DNS_ENABLE_IPV6 ^{*2} | page 202 |
| NW_TEST_COUNT | page 202 |
| NW_TEST_TIMER | page 203 |
| DHCPCD_RECOVERY_TIME | page 203 |
| DHCP_OPTION100_ENABLE | page 203 |

Ethernet Port Settings

| Parameter Name | Ref. |
|---------------------------------|----------|
| PHY_MODE_LAN ^{*2} | page 204 |
| VLAN_ENABLE ^{*2} | page 204 |
| VLAN_ID_IP_PHONE ^{*2} | page 204 |
| VLAN_PRI_IP_PHONE ^{*2} | page 204 |
| LLDP_ENABLE ^{*2} | page 205 |
| LLDP_INTERVAL ^{*1} | page 205 |
| CDP_ENABLE ^{*2} | page 205 |
| CDP_INTERVAL ^{*2} | page 205 |

Pre-Provisioning Settings

| Parameter Name | Ref. |
|-----------------------------|----------|
| SIPPNP_PROV_ENABLE | page 206 |
| OPTION66_ENABLE | page 206 |
| OPTION159_PROV_ENABLE | page 206 |
| OPTION160_PROV_ENABLE | page 206 |
| DHCPV6_OPTION17_PROV_ENABLE | page 207 |

Provisioning Settings

| Parameter Name | Ref. |
|-------------------------------------|----------|
| CFG_STANDARD_FILE_PATH ¹ | page 207 |
| CFG_PRODUCT_FILE_PATH ¹ | page 207 |
| CFG_MASTER_FILE_PATH ¹ | page 208 |
| CFG_CYCLIC ¹ | page 208 |
| CFG_CYCLIC_INTVL ¹ | page 208 |
| CFG_RESYNC_TIME ¹ | page 208 |
| CFG_RTRY_INTVL | page 209 |
| CFG_RESYNC_FROM_SIP ¹ | page 209 |
| CFG_RESYNC_ACTION | page 209 |
| CFG_FILE_KEY2 | page 209 |
| CFG_FILE_KEY3 | page 210 |
| CFG_FILE_KEY_LENGTH | page 210 |
| CFG_ROOT_CERTIFICATE_PATH | page 210 |
| CFG_CLIENT_CERT_PATH | page 211 |
| CFG_PKEY_PATH | page 211 |
| HTTP_SSL_VERIFY | page 211 |
| CFG_RESYNC_DURATION | page 212 |
| CFG_BOOTUP_DURATION_ENABLE | page 212 |
| HTTP_SSL_TIME_ASYNC_VERIFY | page 212 |
| SETTING_PRIORITY_OPTION | page 212 |
| CFG_RTRY_INTVL_MODE | page 213 |
| CFG_RTRY_TIMES | page 213 |
| CFG_RTRY_TM | page 213 |
| CFG_DL_WEEKLY_INTERVAL | page 214 |
| CFG_DL_WEEKLY_DAY_OF_WEEK | page 214 |

4.1 Configuration File Parameter List

Firmware Update Settings

| Parameter Name | Ref. |
|-----------------------------------------------|----------|
| <code>FIRM_UPGRADE_ENABLE</code> ¹ | page 214 |
| <code>FIRM_FILE_PATH</code> ¹ | page 215 |
| <code>FIRM_VERSION</code> | page 215 |
| <code>FWDL_RANDOM_DURATION</code> | page 215 |

HTTP Settings

| Parameter Name | Ref. |
|---------------------------------------------|----------|
| <code>HTTP_VER</code> ¹ | page 215 |
| <code>HTTP_USER_AGENT</code> ¹ | page 216 |
| <code>HTTP_AUTH_ID</code> ² | page 216 |
| <code>HTTP_AUTH_PASS</code> ² | page 216 |
| <code>HTTP_PROXY_ENABLE</code> ¹ | page 217 |
| <code>HTTP_PROXY_ADDR</code> ¹ | page 217 |
| <code>HTTP_PROXY_PORT</code> ¹ | page 217 |
| <code>HTTP_PROXY_ID</code> | page 217 |
| <code>HTTP_PROXY_PASS</code> | page 217 |

HTTPD/WEB Settings

| Parameter Name | Ref. |
|--------------------------------------|----------|
| <code>HTTPD_LISTEN_PORT</code> | page 217 |
| <code>HTTPD_PORTOPEN_AUTO</code> | page 218 |
| <code>HTTPD_PORTCLOSE_TM</code> | page 218 |
| <code>USER_ID</code> | page 218 |
| <code>USER_PASS</code> ¹ | page 218 |
| <code>ADMIN_ID</code> | page 219 |
| <code>ADMIN_PASS</code> ¹ | page 219 |

TR-069 Settings

| Parameter Name | Ref. |
|---------------------------------------|----------|
| <code>ACS_URL</code> | page 219 |
| <code>ACS_USER_ID</code> | page 220 |
| <code>ACS_PASS</code> | page 220 |
| <code>PERIODIC_INFORM_ENABLE</code> | page 220 |
| <code>PERIODIC_INFORM_INTERVAL</code> | page 220 |
| <code>PERIODIC_INFORM_TIME</code> | page 220 |

| Parameter Name | Ref. |
|-------------------------------|----------|
| CON_REQ_USER_ID | page 221 |
| CON_REQ_PASS | page 221 |
| ANNEX_G_STUN_ENABLE | page 221 |
| ANNEX_G_STUN_SERV_ADDR | page 222 |
| ANNEX_G_STUN_SERV_PORT | page 222 |
| ANNEX_G_STUN_USER_ID | page 222 |
| ANNEX_G_STUN_PASS | page 223 |
| ANNEX_G_STUN_MAX_KEEP_ALIVE | page 223 |
| ANNEX_G_STUN_MIN_KEEP_ALIVE | page 223 |
| UDP_CON_REQ_ADDR_NOTIFY_LIMIT | page 223 |
| DEVICE_PROVISIONING_CODE | page 224 |
| TR069_REGISTERING | page 224 |
| TR069_REGISTERED | page 224 |

XML Settings

| Parameter Name | Ref. |
|-------------------------------------|----------|
| XMLAPP_ENABLE ¹ | page 224 |
| XMLAPP_USERID ¹ | page 224 |
| XMLAPP_USERPASS ¹ | page 225 |
| XMLAPP_LDAP_URL ¹ | page 225 |
| XMLAPP_LDAP_USERID ¹ | page 225 |
| XMLAPP_LDAP_USERPASS ¹ | page 225 |
| XMLAPP_NPB_SEARCH_TIMER | page 225 |
| XMLAPP_LDAP_MAXRECORD ¹ | page 225 |
| XML_HTTPD_PORT ¹ | page 226 |
| XML_ERROR_INFORMATION | page 226 |
| XMLAPP_INCOMING_URL | page 226 |
| XML_PHONEBOOK_URL | page 226 |
| XML_PHONEBOOK_CYCLIC_INTVL | page 226 |
| XMLAPP_SELECT_HS_PB | page 227 |
| XMLAPP_RCV_IP_ADDRESS ^x | page 227 |
| XMLAPP_RCV_DOMAIN_NAME ^x | page 227 |

XSI Settings

| Parameter Name | Ref. |
|-------------------------|----------|
| XSI_ENABLE ¹ | page 227 |

4.1 Configuration File Parameter List

| Parameter Name | Ref. |
|------------------------------------------|----------|
| XSI_SERVER ^{*1} | page 228 |
| XSI_SERVER_TYPE ^{*1} | page 228 |
| XSI_SERVER_PORT ^{*1} | page 228 |
| XSI_USERID_n ^{*2} | page 228 |
| XSI_PASSWORD_n ^{*2} | page 228 |
| XSI_PHONEBOOK_ENABLE_n ^{*1} | page 229 |
| XSI_PHONEBOOK_CYCLIC_INTVL | page 229 |
| XSI_PHONEBOOK_RESYNC_DURATION | page 229 |
| XSI_PHONEBOOK_TYPE_n ^{*1} | page 229 |
| XSI_CALLLOG_ENABLE_n ^{*1} | page 230 |
| XSI_SIP_CREDENTIALS_ENABLE ^{*1} | page 230 |
| BSD_GROUP_ENABLE_n ^{*1} | page 230 |
| BSD_GROUPCOM_ENABLE_n ^{*1} | page 230 |
| BSD_ENTERPRISE_ENABLE_n ^{*1} | page 231 |
| BSD_ENTERPRISECOM_ENABLE_n ^{*1} | page 231 |
| BSD_PERSONAL_ENABLE_n ^{*1} | page 231 |
| BSD_MULTI_TYPE_ENABLE | page 232 |
| XSI_ACTION_URL | page 232 |
| XSI_NAME_REPLACE_RULE | page 232 |

XMPP (UC-ONE) Settings

| Parameter Name | Ref. |
|-------------------------------|----------|
| UC_ENABLE ^{*1} | page 232 |
| UC_USERID_HSY ^{*2} | page 232 |
| UC_PASSWORD_HSY ^{*2} | page 233 |
| XMPP_SERVER ^{*1} | page 233 |
| XMPP_PORT ^{*1} | page 233 |
| XMPP_TLS_VERIFY | page 233 |
| XMPP_ROOT_CERT_PATH | page 233 |
| XMPP_CLIENT_CERT_PATH | page 234 |
| XMPP_PKEY_PATH | page 234 |
| UC_DNSSRV_ENA | page 234 |
| UC_TCP_SRV_PREFIX | page 234 |
| UC_USERID_CASE_SENSITIVE | page 235 |
| PRESENCE_MYPHONE_STATUS | page 235 |

| Parameter Name | Ref. |
|---------------------------|----------|
| PRESENCE_INVISIBLE_ENABLE | page 235 |

LDAP Settings

| Parameter Name | Ref. |
|------------------------------------------|----------|
| LDAP_ENABLE ^{*1} | page 235 |
| LDAP_DNSSRV_ENABLE ^{*1} | page 235 |
| LDAP_SERVER ^{*1} | page 236 |
| LDAP_SERVER_MULTIx ^{*1} | page 236 |
| LDAP_SERVER_PORT ^{*1} | page 236 |
| LDAP_SERVER_PORT_MULTIx ^{*1} | page 237 |
| LDAP_MAXRECORD ^{*1} | page 237 |
| LDAP_NUMB_SEARCH_TIMER | page 237 |
| LDAP_NAME_SEARCH_TIMER | page 237 |
| LDAP_USERID ^{*1} | page 237 |
| LDAP_USERID_MULTIx ^{*1} | page 238 |
| LDAP_PASSWORD ^{*1} | page 238 |
| LDAP_PASSWORD_MULTIx ^{*1} | page 238 |
| LDAP_NAME_FILTER ^{*1} | page 238 |
| LDAP_NAME_FILTER_MULTIx ^{*1} | page 239 |
| LDAP_NUMB_FILTER ^{*1} | page 239 |
| LDAP_NUMB_FILTER_MULTIx ^{*1} | page 239 |
| LDAP_NAME_ATTRIBUTE ^{*1} | page 239 |
| LDAP_NAME_ATTRIBUTE_MULTIx ^{*1} | page 240 |
| LDAP_NUMB_ATTRIBUTE ^{*1} | page 240 |
| LDAP_NUMB_ATTRIBUTE_MULTIx ^{*1} | page 240 |
| LDAP_BASEDN ^{*1} | page 240 |
| LDAP_BASEDN_MULTIx ^{*1} | page 241 |
| LDAP_SSL_VERIFY | page 241 |
| LDAP_SSL_VERIFY_MULTIx | page 241 |
| LDAP_ROOT_CERT_PATH | page 241 |
| LDAP_ROOT_CERT_PATH_MULTIx | page 242 |
| LDAP_CLIENT_CERT_PATH | page 242 |
| LDAP_CLIENT_CERT_PATH_MULTIx | page 242 |
| LDAP_PKEY_PATH | page 242 |
| LDAP_PKEY_PATH_MULTIx | page 243 |

4.1 Configuration File Parameter List

| Parameter Name | Ref. |
|----------------------------|----------|
| LDAP_DISPLAY_FORMAT | page 243 |
| LDAP_DISPLAY_FORMAT_MULTIX | page 243 |

SNMP Settings

| Parameter Name | Ref. |
|--------------------------|----------|
| SNMP_ENABLE | page 244 |
| SNMP_TRUST_IP | page 244 |
| SNMP_TRUST_PORT | page 244 |
| SNMP_RO_COMMUNITY_STRING | page 244 |
| SNMP_SECURITY_TYPE | page 244 |
| SNMP_SECURITY_USER | page 245 |
| SNMP_AUTH_TYPE | page 245 |
| SNMP_AUTH_PASSWORD | page 245 |
| SNMP_ENCRYPT_TYPE | page 245 |
| SNMP_ENCRYPT_PASSWORD | page 245 |

Multicast Paging Settings

| Parameter Name | Ref. |
|---------------------------------------------|----------|
| MPAGE_ADDR ^m ¹ | page 246 |
| MPAGE_IPV6_ADDR ^m ¹ | page 246 |
| MPAGE_PORT ^m ¹ | page 246 |
| MPAGE_PRIORITY ^m ¹ | page 246 |
| MPAGE_LABEL ^m ¹ | page 247 |
| MPAGE_SEND_ENABLE ^m ¹ | page 247 |
| MPAGE_CODEC | page 247 |
| MPAGE_SP_VOL_EMERGENCY | page 247 |
| MPAGE_SP_VOL_EMERGENCY2 | page 248 |
| MPAGE_SP_VOL_PRIORITY | page 248 |
| MPAGE_SP_VOL_PRIORITY2 | page 248 |
| MPAGE_DND_ENABLE_HS _y | page 248 |
| MPAGE_FUNCKEY_ENABLE | page 248 |

NTP Settings

| Parameter Name | Ref. |
|-----------------------|----------|
| NTP_ADDR ¹ | page 249 |
| TIME_SYNC_INTVL | page 249 |

| Parameter Name | Ref. |
|-------------------------------|----------|
| TIME_QUERY_INTVL ¹ | page 249 |

Time Settings

| Parameter Name | Ref. |
|------------------------------------|----------|
| LOCAL_TIME_ZONE_POSIX | page 249 |
| TIME_ZONE ¹ | page 250 |
| DST_ENABLE ¹ | page 251 |
| DST_OFFSET ¹ | page 251 |
| DST_START_MONTH ¹ | page 252 |
| DST_START_ORDINAL_DAY ¹ | page 252 |
| DST_START_DAY_OF_WEEK ¹ | page 252 |
| DST_START_TIME ¹ | page 253 |
| DST_STOP_MONTH ¹ | page 253 |
| DST_STOP_ORDINAL_DAY ¹ | page 253 |
| DST_STOP_DAY_OF_WEEK ¹ | page 254 |
| DST_STOP_TIME ¹ | page 254 |

Network Phonebook (Common)

| Parameter Name | Ref. |
|------------------------------|----------|
| ONLY_NPB_ENABLE | page 255 |
| NETWORK_SEARCH_ENABLE | page 255 |
| NW_PHONEBOOK_ADVANCED_SERACH | page 255 |
| PHONE_BOOK_MENUx_HSY | page 255 |
| PHONE_BOOK_MENUx_LABEL_HSY | page 256 |

Language Settings

| Parameter Name | Ref. |
|-------------------------------------|----------|
| AVAILABLE_LANGUAGE_HS ¹ | page 256 |
| DEFAULT_LANGUAGE_HSY ¹ | page 257 |
| HS_LANGUAGE_PATHx | page 257 |
| HS_LANGUAGE_VERx | page 257 |
| HS_LANGUAGE_UX1_PATHx | page 257 |
| HS_LANGUAGE_UX1_VERx | page 258 |
| AVAILABLE_LANGUAGE_WEB ¹ | page 258 |
| WEB_LANGUAGE ¹ | page 258 |
| WEB_LANGUAGE_PATHx | page 258 |

4.1 Configuration File Parameter List

| Parameter Name | Ref. |
|-------------------|----------|
| WEB_LANGUAGE_VERx | page 259 |

NAT Settings

| Parameter Name | Ref. |
|-----------------------------------|----------|
| STUN_SERV_ADDR [*] | page 259 |
| STUN_SERV_PORT [*] | page 259 |
| STUN_2NDSERV_ADDR | page 259 |
| STUN_2NDSERV_PORT | page 259 |
| STUN_INTVL [*] | page 260 |
| SIP_ADD_RPORT [*] | page 260 |
| PORT_PUNCH_INTVL [*] | page 260 |
| RTP_PORT_PUNCH_INTVL [*] | page 260 |
| EXTERNAL_RTP_PORTx | page 260 |

SIP Settings

| Parameter Name | Ref. |
|-----------------------------------|----------|
| SIP_USER_AGENT [*] | page 261 |
| PHONE_NUMBER_n [*] | page 261 |
| SIP_URI_n [*] | page 262 |
| SIP_RGSTR_ADDR_n [*] | page 262 |
| SIP_RGSTR_PORT_n [*] | page 262 |
| SIP_PRXY_ADDR_n [*] | page 262 |
| SIP_PRXY_PORT_n [*] | page 263 |
| SIP_PRSNC_ADDR_n [*] | page 263 |
| SIP_PRSNC_PORT_n [*] | page 263 |
| SIP_OUTPROXY_ADDR_n [*] | page 263 |
| SIP_OUTPROXY_PORT_n [*] | page 264 |
| SIP_SVCDOMAIN_n [*] | page 264 |
| SIP_AUTHID_n [*] | page 264 |
| SIP_PASS_n [*] | page 264 |
| SIP_SRC_PORT_n [*] | page 265 |
| DSCP_SIP_n [*] | page 265 |
| SIP_DNSSRV_ENA_n [*] | page 265 |
| SIP_UDP_SRV_PREFIX_n [*] | page 266 |
| SIP_TCP_SRV_PREFIX_n [*] | page 266 |

| Parameter Name | Ref. |
|-----------------------------------|----------|
| REG_EXPIRE_TIME_n [*] | page 267 |
| REG_INTERVAL_RATE_n | page 267 |
| REG_RTX_INTVL_n | page 267 |
| USE_DEL_REG_OPEN_n | page 267 |
| USE_DEL_REG_CLOSE_n | page 268 |
| SIP_SESSION_TIME_n [*] | page 268 |
| SIP_SESSION_METHOD_n [*] | page 268 |
| SIP_TIMER_T1_n [*] | page 268 |
| SIP_TIMER_T2_n [*] | page 269 |
| SIP_TIMER_T4_n | page 269 |
| SIP_TIMER_B_n | page 269 |
| SIP_TIMER_D_n | page 270 |
| SIP_TIMER_F_n | page 270 |
| SIP_TIMER_H_n | page 270 |
| SIP_TIMER_J_n | page 270 |
| SIP_100REL_ENABLE_n [*] | page 271 |
| SIP_18X_RTX_INTVL_n | page 271 |
| SIP_SUBS_EXPIRE_n | page 271 |
| SUB_INTERVAL_RATE_n | page 271 |
| SUB_RTX_INTVL_n | page 272 |
| SIP_P_PREFERRED_ID_n | page 272 |
| SIP_PRIVACY_n | page 272 |
| ADD_USER_PHONE_n | page 272 |
| SIP_ANM_DISPNAME_n | page 273 |
| SIP_ANM_USERNAME_n | page 273 |
| SIP_ANM_HOSTNAME_n | page 273 |
| SIP_DETECT_SSAF_n [*] | page 274 |
| SIP_RCV_DET_HEADER_n | page 274 |
| SIP_RCV_DET_REQURI_n | page 274 |
| SIP_CONTACT_ON_ACK_n | page 275 |
| VOICE_MESSAGE_AVAILABLE | page 275 |
| SIP_INVITE_EXPIRE_n | page 275 |
| SIP_FOVR_NORSP_n | page 275 |
| SIP_FOVR_MAX_n | page 276 |
| SIP_FOVR_MODE_n | page 276 |

4.1 Configuration File Parameter List

| Parameter Name | Ref. |
|------------------------------------|----------|
| SIP_FOVR_DURATION_n | page 276 |
| SIP_ADD_ROUTE_n | page 276 |
| SIP_REQURI_PORT_n | page 277 |
| ADD_EXPIRES_HEADER_n | page 277 |
| ADD_TRANSPORT_UDP_n | page 277 |
| SIP_ADD_DIVERSION_n | page 278 |
| TRANSFER_RECALL_TIM | page 278 |
| SIGNAL_COMPRESSION_n | page 278 |
| MAX_BREADTH_n | page 278 |
| RINGTON_183_180_ENABLE_n | page 279 |
| SIP_403_REG_SUB_RTX_n | page 279 |
| SIP_FORK_MODE_n | page 279 |
| RFC2543_HOLD_ENABLE_n ¹ | page 279 |
| SIP_HOLD_ATTRIBUTE_n | page 280 |
| SDP_USER_ID_n | page 280 |
| TELEVENT_PAYLOAD ¹ | page 280 |
| HOLD_SOUND_PATH_n | page 280 |
| KEEP_EARLYMEDIA_n | page 281 |
| RFC3327_SUPPORT_PATH | page 281 |
| RFC6947_DRAFT08_ALTC | page 281 |
| ESCAPECODE_CONVERSION | page 282 |
| SIP_REPLACE_ENABLE_n | page 282 |
| SEND_180_ALERT_ENABLE | page 282 |
| SIP_INC_INVITE_RTP_MODE_n | page 282 |
| SIP_183_TALK_ENABLE | page 282 |
| SIP_DNSSRV_ENA_NAPTR_n | page 283 |
| SIP_REFRESHER_n | page 283 |
| ENH_FOVR_ENABLE_n | page 283 |
| ENH_FOVR_RANDOM_TIMER_n | page 283 |
| ENH_FOVR_RANDOM_MAX_TIME_n | page 284 |
| ENH_FOVR_RANDOM_MIN_TIME_n | page 284 |
| INVITE_403_REGSEND_ENABLE_n | page 284 |
| ESCAPECODE_CONVERSION_RFC3986 | page 285 |
| ENH_FOVR_RESPONSE_CODE | page 285 |
| ENH_FOVR_REGISTER_ENABLE_n | page 285 |

| Parameter Name | Ref. |
|----------------------------------|----------|
| ENH_FOVR_INVITE_ENABLE_n | page 285 |
| ENH_FOVR_SUBSCRIBE_ENABLE_n | page 286 |
| ENH_FOVR_BYE_ENABLE_n | page 286 |
| SUBSCRIBE_403_REGSEND_ENABLE_n | page 286 |
| SIP_UDP_RANDOM_PORT ² | page 286 |
| ADD_PORT_FROM_AND_TO_HEADER_n | page 287 |
| NAPTR_WITH_OUTPROXY_ENABLE_n | page 287 |
| SIP_TRANSPORT_NAPTR_ENABLE_n | page 288 |
| SRTP_CONNECT_MODE_NAPTR_ENABLE_n | page 288 |
| SEND_182 queued_ENABLE | page 289 |
| SIP_FOVR_FAILBACK_ENABLE_n | page 289 |

SIP-TLS Settings

| Parameter Name | Ref. |
|-----------------------------------|----------|
| SIP_TRANSPORT_n ¹ | page 289 |
| SIP_TLS_MODE_n ¹ | page 289 |
| SIP_TLS_RECONNECT_n | page 290 |
| SIP_TLS_SRV_PREFIX_n ¹ | page 290 |
| SIP_TLS_VERIFY_n | page 290 |
| SIP_TLS_ROOT_CERT_PATH | page 290 |
| SIP_TLS_CLIENT_CERT_PATH | page 291 |
| SIP_TLS_PKEY_PATH | page 291 |
| SIP_TLS_RANDOM_PORT | page 291 |

CODEC Settings

| Parameter Name | Ref. |
|--------------------------------|----------|
| CODEC_G729_PARAM_n | page 292 |
| CODEC_ENABLEx_n ¹ | page 292 |
| CODEC_PRIORITYx_n ¹ | page 293 |
| CODEC_G711_REQ | page 293 |
| OPUS_BAND_TYPE_n | page 293 |

DTMF Settings

| Parameter Name | Ref. |
|----------------------------|----------|
| DTMF_METHOD_n ¹ | page 294 |
| OUTBANDDTMF_VOL | page 294 |

4.1 Configuration File Parameter List

| Parameter Name | Ref. |
|-------------------|----------|
| INBANDDTMF_VOL | page 294 |
| DTMF_SIGNAL_LEN | page 294 |
| DTMF_INTDIGIT_TIM | page 295 |

RTP/RTCP/RTCP-XR Settings

| Parameter Name | Ref. |
|------------------------------|----------|
| DSCP_RTP_n [*] | page 295 |
| DSCP_RTCP_n [*] | page 295 |
| MAX_DELAY_n | page 295 |
| MIN_DELAY_n | page 296 |
| NOM_DELAY_n | page 296 |
| RTP_PORT_MIN [*] | page 296 |
| RTP_PORT_MAX [*] | page 296 |
| RTP_PTIME [*] | page 297 |
| RTCP_ENABLE_n [*] | page 297 |
| RTCP_INTVL_n [*] | page 297 |
| RTCP_SEND_BY_SDPM | page 297 |
| RTP_CLOSE_ENABLE_n | page 298 |
| RTCPXR_ENABLE_n [*] | page 298 |

SRTP Settings

| Parameter Name | Ref. |
|-------------------------------------------|----------|
| SRTP_CONNECT_MODE_n [*] | page 298 |
| SRTP_MIX_CONFERENCE_ENABLE_n [*] | page 299 |
| SRTP_MIX_TRANSFER_ENABLE_n [*] | page 299 |
| SRTP_HELD_CALL_RTP_ENABLE | page 300 |
| DISPLAY_SRTP_CALL_ENABLE | page 300 |
| DISPLAY_SECURITY_CALL_ENABLE | page 300 |

VQ Report by PUBLISH

| Parameter Name | Ref. |
|-----------------------------------------|----------|
| VQREPORT_COLLECTOR_ADDRESS [*] | page 301 |
| VQREPORT_COLLECTOR_PORT [*] | page 301 |
| VQREPORT_SEND [*] | page 301 |
| ALERT_REPORT_TRIGGER [*] | page 301 |
| ALERT_REPORT_MOSQ_CRITICAL [*] | page 301 |

| Parameter Name | Ref. |
|------------------------------------------|----------|
| ALERT_REPORT_MOSQ_WARNING ¹ | page 302 |
| ALERT_REPORT_DELAY_CRITICAL ¹ | page 302 |
| ALERT_REPORT_DELAY_WARNING ¹ | page 302 |
| VQREPORT_SIGNAL_COMPRESSION | page 302 |
| VQREPORT_SEND_OPT_CODEC_ENABLE | page 302 |
| VQREPORT_SEND_OPT_NW_CHANGE | page 303 |
| VQREPORT_PACKET_LOSS_DETECTION | page 303 |

uaCSTA Settings

| Parameter Name | Ref. |
|----------------------|----------|
| UACSTA_ENABLE_n | page 303 |
| UACSTA_UNIQUE_ID | page 303 |
| CSTA_PORT | page 304 |
| CSTA_PRXY_ADDR | page 304 |
| CSTA_PRXY_PORT | page 304 |
| CSTA_RGSTR_ADDR | page 304 |
| CSTA_RGSTR_PORT | page 304 |
| CSTA_REG_EXPIRE_TIME | page 304 |
| CSTA_TRANSPORT | page 305 |
| CSTA_RGSTR_AUTHID | page 305 |
| CSTA_RGSTR_PASS | page 305 |

Telephone Settings

| Parameter Name | Ref. |
|--------------------------------------------|----------|
| POWER_ON_DISPLAY_LOGO_PATH | page 305 |
| DISPLAY_WALLPAPER_DARK_PATH ¹ | page 305 |
| DISPLAY_WALLPAPER_LIGHT_PATH ¹ | page 306 |
| FIRSTDIGIT_TIM ¹ | page 306 |
| INTDIGIT_TIM ¹ | page 306 |
| POUND_KEY_DELIMITER_ENABLE ¹ | page 306 |
| POST_DIAL_TALK_ENABLE | page 307 |
| RINGTONES_SETTING_HSY_n ³ | page 307 |
| INTERCOM_RINGTONE_SETTING_HSY ³ | page 307 |
| DISPLAY_NAME_REPLACE | page 308 |
| NUMBER_MATCHING_LOWER_DIGIT | page 308 |
| NUMBER_MATCHING_UPPER_DIGIT | page 308 |

4.1 Configuration File Parameter List

| Parameter Name | Ref. |
|--------------------------------------------|----------|
| INCOMING_BUSY_ENABLE | page 308 |
| FLASH_RECALL_TERMINATE | page 308 |
| FLASHHOOK_CONTENT_TYPE | page 309 |
| NUM_PLAN_PARKING ¹ | page 309 |
| CALLPARK_KEY_ENABLE ¹ | page 309 |
| NUM_PLAN_PARK_RETRIEVING ¹ | page 309 |
| IDLE_SOFT_KEY_PARK_RETRIEVING ¹ | page 309 |
| HOLD_RECALL_TIM | page 310 |
| HOLD_TRANSFER_OPERATION | page 310 |
| XFER_KEY_OPERATION_MODE | page 310 |
| ONHOOK_TRANSFER_ENABLE | page 310 |
| ONHOOK_HOLD_TRNS_ENABLE | page 311 |
| BLIND_TRANSFER_ENABLE | page 311 |
| SYS_LOCK_ENABLE_HSy ¹ | page 311 |
| SYS_LOCK_PASSWORD_HSy ¹ | page 311 |
| INTERCOM_ENABLE | page 312 |
| PAUSE_INPUT_ENABLE | page 312 |
| REGISTRATION_PIN ³ | page 312 |
| CUSTOM_TIME_DISPLAY | page 312 |
| CNIP_FROM_ENABLE | page 312 |
| HS_IDLE_DISPLAY_TYPE ³ | page 313 |
| NOISE_REDUCTION_MODE_HSy ³ | page 313 |
| TALK_ON_CHARGE_MODE_HSy ³ | page 313 |
| NUM_PLAN_PICKUP_GROUP ¹ | page 313 |
| SOFT_KEY_LABELx | page 313 |
| SOFT_KEY_QUICK_DIALx | page 314 |
| HANDSET_VOLUME_LEVEL | page 314 |
| HANDSET_VOLUME_LEVEL2 | page 314 |
| HEADSET_VOLUME_LEVEL | page 314 |
| HEADSET_VOLUME_LEVEL2 | page 315 |
| SPEAKER_VOLUME_LEVEL | page 315 |
| SPEAKER_VOLUME_LEVEL2 | page 315 |
| RINGER_VOLUME_LEVEL | page 315 |
| RINGER_VOLUME_LEVEL2 | page 315 |
| RINGER_VOL_OPERATION_ENABLE | page 315 |

| Parameter Name | Ref. |
|----------------------------------|----------|
| CNIP_CALL_PA1_ENABLE | page 315 |
| EMBEDDED_WEB_PASS_ENABLE | page 316 |
| NETWORK_SETTINGS_PASS_ENABLE | page 316 |
| HANDSET_NAME_PASS_ENABLE | page 316 |
| CALLER_ID_DISP_PASS_ENABLE | page 317 |
| SYSTEM_OPTION_PASS_ENABLE | page 317 |
| CHANGE_PASS_PASS_ENABLE | page 317 |
| SYSTEM_SETTINGS_PASS_ENABLE | page 317 |
| PB_QUICK_SEARCH_ENABLE | page 318 |
| DISPLAY_BARGE_IN_ENABLE | page 318 |
| CW_DISPLAY_CONTINUATION_ENABLE | page 318 |
| POWER_ON_DISPLAY_TPA68_PATH | page 318 |
| DISPLAY_WALLPAPER_TPA68_PATH | page 319 |
| POWER_ON_DISP_W240H320_PATH | page 319 |
| DISP_WPAPER_DARK_W240H232_PATH | page 319 |
| DISP_WPAPER_LIGHT_W240H232_PATH | page 320 |
| CALLWAITING_HOLDKEY_ENABLE | page 320 |
| TALKING_ALTERNATE_DISPLAY | page 320 |
| REMOVE_HYPHEN_ENABLE | page 320 |
| IDLE_CALL_SOFT_KEY_ENABLE | page 321 |
| SHORTCUT_KEY_TYPE_HSy | page 321 |
| UDT_AUTH_MENU_ENABLE | page 321 |
| CLI_NAME_ENABLE | page 321 |
| CALLHISTORY_ON_HOME_HSy | page 322 |
| DISP_CORRECT_LOGO_ENABLE | page 322 |
| DISP_CORRECT_WPAPER_DARK_ENABLE | page 322 |
| DISP_CORRECT_WPAPER_LIGHT_ENABLE | page 322 |

Flexible Key Settings

| Parameter Name | Ref. |
|---------------------------------|----------|
| FLEX_BUTTON_FACILITY_HSy_ACT | page 323 |
| FLEX_BUTTON_FACILITY_HSy_ARGx | page 323 |
| FLEX_BUTTON_FACILITY_HSy_LABELx | page 323 |
| FLEX_BUTTON_FACILITY_HSy_OPTx | page 324 |
| FLEX_BUTTON_FWDDND_ICON | page 324 |

4.1 Configuration File Parameter List

| Parameter Name | Ref. |
|--------------------------|----------|
| FLEX_BUTTON_MISSED_ICON | page 324 |
| FLEX_BUTTON_MESSAGE_ICON | page 324 |

Tone Settings

| Parameter Name | Ref. |
|------------------------------------|----------|
| OUTSIDE_DIAL_TONE_FRO | page 325 |
| OUTSIDE_DIAL_TONE_GAIN | page 325 |
| OUTSIDE_DIAL_TONE_RPT | page 325 |
| OUTSIDE_DIAL_TONE_TIMING | page 325 |
| REORDER_TONE_ENABLE | page 325 |
| TONE_LEN_DISCONNECT | page 325 |
| DIAL_TONE1_FRQ ^{*1} | page 326 |
| DIAL_TONE1_GAIN | page 326 |
| DIAL_TONE1_RPT | page 326 |
| DIAL_TONE1_TIMING ^{*1} | page 326 |
| DIAL_TONE2_FRQ | page 327 |
| DIAL_TONE2_GAIN | page 327 |
| DIAL_TONE2_RPT | page 327 |
| DIAL_TONE2_TIMING | page 327 |
| DIAL_TONE4_FRQ | page 327 |
| DIAL_TONE4_GAIN | page 328 |
| DIAL_TONE4_RPT | page 328 |
| DIAL_TONE4_TIMING | page 328 |
| BUSY_TONE_FRQ ^{*1} | page 328 |
| BUSY_TONE_GAIN | page 329 |
| BUSY_TONE_RPT | page 329 |
| BUSY_TONE_TIMING ^{*1} | page 329 |
| REORDER_TONE_FRQ ^{*1} | page 329 |
| REORDER_TONE_GAIN | page 329 |
| REORDER_TONE_RPT | page 330 |
| REORDER_TONE_TIMING ^{*1} | page 330 |
| RINGBACK_TONE_FRQ ^{*1} | page 330 |
| RINGBACK_TONE_GAIN | page 330 |
| RINGBACK_TONE_RPT | page 330 |
| RINGBACK_TONE_TIMING ^{*1} | page 331 |

| Parameter Name | Ref. |
|-------------------------------|----------|
| CW_TONE1_FRQ | page 331 |
| HOLD_TONE_FRQ | page 331 |
| HOLD_TONE_GAIN | page 331 |
| BELL_CORE_PATTERN1_TIMING | page 332 |
| BELL_CORE_PATTERN2_TIMING | page 332 |
| BELL_CORE_PATTERN3_TIMING | page 332 |
| BELL_CORE_PATTERN4_TIMING | page 332 |
| BELL_CORE_PATTERN5_TIMING | page 333 |
| KEY_PAD_TONE_HSY ³ | page 333 |

Call Control Settings

| Parameter Name | Ref. |
|--------------------------------------------|----------|
| OUTGOING_CALL_LINE_HSY ² | page 333 |
| DEFAULT_LINE_SELECT_HSY ² | page 334 |
| INCOMING_CALL_GROUP_n ² | page 334 |
| PAGING_ENABLE_HANDSET_n ¹ | page 334 |
| ANONYMOUS_CALL_ENABLE_n ² | page 335 |
| BLOCK_ANONYMOUS_CALL_ENABLE_n ² | page 335 |
| HOTLINE_ENABLE_HSY ¹ | page 335 |
| HOTLINE_NUMBER_HSY ¹ | page 335 |
| HOTLINE_TIM ¹ | page 336 |
| DISPLAY_NAME_n ¹ | page 336 |
| VM_SUBSCRIBE_ENABLE ¹ | page 336 |
| VM_NUMBER_n ¹ | page 336 |
| VM_SUBSCRIBE_SPECIFIC_n | page 337 |
| DIAL_PLAN_n ¹ | page 337 |
| DIAL_PLAN_NOT_MATCH_ENABLE_n ¹ | page 337 |
| MACRODIGIT_TIM ¹ | page 338 |
| INTERNATIONAL_ACCESS_CODE ¹ | page 338 |
| COUNTRY_CALLING_CODE ¹ | page 338 |
| NATIONAL_ACCESS_CODE ¹ | page 339 |
| IDLE_SOFT_KEY_A ¹ | page 339 |
| IDLE_SOFT_KEY_B ¹ | page 339 |
| IDLE_SOFT_KEY_C ¹ | page 340 |
| IDLE_SOFT_KEY_A_UX1 ¹ | page 340 |

4.1 Configuration File Parameter List

| Parameter Name | Ref. |
|---------------------------------------------|----------|
| IDLE_SOFT_KEY_B_UX1 ¹ | page 341 |
| IDLE_SOFT_KEY_C_UX1 ¹ | page 342 |
| ADMIN_ABILITY_ENABLE_HSy ¹ | page 342 |
| HANDSET_NAME_HSy ² | page 342 |
| EMERGENCY_CALLx ¹ | page 343 |
| CALL_REJECTIONx_n ² | page 343 |
| CLICKTO_ENABLE_n ¹ | page 343 |
| CALLPARK_NOTIFICATION_ENABLE_n ¹ | page 344 |
| SHARED_CALL_ENABLE_n ¹ | page 344 |
| SHARED_STOP_LINE_SEIZE | page 344 |
| FWD_DND_SYNCHRO_ENABLE_n ¹ | page 345 |
| MOH_SERVER_URI_n ¹ | page 345 |
| FWD_DND_CONTROL_ENABLE | page 345 |
| FWD_DND_SYNCHRO_MODE | page 345 |
| HOLD_AND_CALL_ENABLE | page 346 |
| AUTO_CALL_HOLD | page 346 |
| SIP_RESPONSE_CODE_DND | page 346 |
| SIP_RESPONSE_CODE_CALL_REJECT | page 346 |
| CW_ENABLE_n ¹ | page 346 |
| RETURN_VOL_SET_DEFAULT_ENABLE | page 347 |
| CONFERENCE_SERVER_URI ¹ | page 347 |
| PRIVACY_MODE_n | page 347 |
| PARALLEL_HSNOm ² | page 347 |
| PARALLEL_MODEm ² | page 348 |
| FWD_SYNCHRO_FORCE_DISABLE_n | page 348 |
| CONF_SERVER_HOLD_ENABLE | page 348 |
| DIALPLAN_REPLACE_LOG_ENABLE | page 349 |
| DIALPLAN_MEMORY_DIAL_ENABLE | page 349 |
| SIGNALING_AUTO_ANS_ENABLE_n | page 349 |
| TALKING_SOFT_KEY_A | page 349 |
| TALKING_SOFT_KEY_B | page 350 |
| TALKING_SOFT_KEY_C | page 351 |
| TALKING_SOFT_KEY_A_UX1 | page 352 |
| TALKING_SOFT_KEY_B_UX1 | page 353 |

| Parameter Name | Ref. |
|--------------------------------|----------|
| TALKING_SOFT_KEY_C_UX1 | page 354 |
| DISPLAY_VM_WITH_NUMBER | page 355 |
| FWD_DND_MISSEDLG_ENABLE | page 355 |
| RETRIVE_TRANS_HOLD_OPER_CHANGE | page 356 |
| REMOVE_PREFIX_ENABLE | page 356 |
| RECVBACK_RESCODE_OUTOFRANGE | page 356 |
| PRIVACY_FLEXIBLE_MODE_n | page 356 |
| PRIVACY_LEVEL_n | page 357 |
| GROUP_CALL_REJECT_MODE | page 357 |

Logging Settings

| Parameter Name | Ref. |
|------------------------------|----------|
| SYSLOG_ADDR | page 358 |
| SYSLOG_PORT | page 358 |
| LOGGING_LEVEL_DNS | page 358 |
| LOGGING_LEVEL_NW1 | page 358 |
| LOGGING_LEVEL_FILE | page 358 |
| LOGGING_LEVEL_SIP | page 359 |
| LOGGING_LEVEL_TR069 | page 359 |
| LOGGING_LEVEL_STUN | page 359 |
| LOGGING_LEVEL_NW2 | page 359 |
| LOGGING_LEVEL_CFGPARSE | page 359 |
| SYSLOG_OUT_START | page 359 |
| SYSLOG_TRANSPORT | page 360 |
| SYSLOG_TLS_VERIFY | page 360 |
| SYSLOG_ROOT_CERT_PATH | page 360 |
| SYSLOG_CLIENT_CERT_PATH | page 360 |
| SYSLOG_PKEY_PATH | page 360 |
| DECT_MONITORING_CYCLIC_INTVL | page 360 |
| DECT_MONITORING_OUTPUT | page 361 |
| DECT_MONITORING_OPTION | page 361 |
| DECT_MONITORING_SERVER_DEST | page 361 |
| DECT_MONITORING_SERVER_ADDR | page 361 |
| DECT_MONITORING_SERVER_PORT | page 362 |
| DECT_MONITORING_TRANSPORT | page 362 |

4.2 General Information on the Configuration Files

| Parameter Name | Ref. |
|----------------------------------|----------|
| DECT_MONITORING_TLS_VERIFY | page 362 |
| DECT_MONITORING_ROOT_CERT_PATH | page 362 |
| DECT_MONITORING_CLIENT_CERT_PATH | page 362 |
| DECT_MONITORING_PKEY_PATH | page 363 |

TWAMP Settings

| Parameter Name | Ref. |
|----------------------------------------|----------|
| TWAMP_ENABLE ¹ | page 363 |
| TWAMP_CONTROL_PORT ¹ | page 363 |
| TWAMP_TEST_PORT ¹ | page 363 |
| TWAMP_SERVER_WAIT_TIME ¹ | page 363 |
| TWAMP_REFLECTOR_WAIT_TIME ¹ | page 364 |
| TWAMP_PADDING_ZERO | page 364 |

¹ This setting can also be configured through the Web user interface.

² This setting can also be configured through other programming methods (phone user interface programming or Web user interface programming).

³ This setting can also be configured through the Phone user interface programming.

4.2 General Information on the Configuration Files

4.2.1 Configuration File Parameters

The information on each parameter that can be written in a configuration file is shown in the tables below. The information includes parameter name (as the title of the table), value format, description, permitted value range, default value of each parameter, phone user interface reference, and Web user interface reference.

Parameter Name

This is the system-predefined parameter name and cannot be changed.

Note

- Certain parameter names end with "_n". This signifies that these settings can be made to each line individually. The number of lines available varies depending on the phone being used, as follows:
 - KX-TGP700: n=1–16
Parameter name examples for "SIP_URI_n" are as follows :
SIP_URI_1, SIP_URI_2,, SIP_URI_16
- Certain parameter names include "_HSy". This signifies that these settings can be made to each handset individually. The number of handsets available varies depending on the phone being used, as follows:
 - KX-TGP700: y=1–16
Parameter name examples for "IPEI_HSy" are as follows :
IPEI_HS1, IPEI_HS2,, IPEI_HS16
- Certain parameter names end with "x" or "m". This signifies the number of this setting. Parameter name examples for "HS_LANGUAGE_PATHx" are as follows :

HS_LANGUAGE_PATH1, HS_LANGUAGE_PATH2,, HS_LANGUAGE_PATH10
 Parameter name examples for "MPAGE_ADDRm" are as follows :
 MPAGE_ADDR1, MPAGE_ADDR2,, MPAGE_ADDR5

Value Format

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".

- **Integer:** a numerical value, described as a sequence of numerical characters, optionally preceded by a "-" (minus)
 An empty string is not allowed.
- **Boolean:** "Y" or "N"
- **String:** sequence of alphanumerical characters
 For details about available characters, see **4.2.2 Characters Available for String Values**.
- **Comma-separated Integer:** a list of integers, separated by commas
 No space characters are allowed.
- **Comma-separated String:** a list of strings, separated by commas
 No space characters are allowed.
- **IPADDR:** IPv4 address format.
- **IPADDR-V6:** IPv6 address format (can be abbreviated).

Description

Describes the details of the parameter.

Value Range

Indicates the permitted value range of the parameter.

Default Value

Indicates the factory default value of the parameter.

Actual default values may vary depending on your phone system dealer/service provider.

Phone User Interface Reference

Provides the reference page of the corresponding parameter in phone user interface programming.

Web User Interface Reference

Provides the reference page of the corresponding parameter in Web user interface programming.

4.2.2 Characters Available for String Values

Unless noted otherwise in "Value Range", only ASCII characters can be used for parameter values. Unicode characters can also be used in some parameter values.

Available ASCII characters are shown on a white background in the following table:

| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 20 | SP | ! | " | # | \$ | % | & | ' | (|) | * | + | , | - | . | / |
| 30 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | : | ; | < | = | > | ? |
| 40 | @ | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
| 50 | P | Q | R | S | T | U | V | W | X | Y | Z | [| \ |] | ^ | _ |
| 60 | ' | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o |
| 70 | p | q | r | s | t | u | v | w | x | y | z | { | | } | ~ | |

4.3 System Settings

[MULTI_NUMBER_ENABLE](#)

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the multi number mode. |
| Value Range | <ul style="list-style-type: none"> Y: Enable multi number mode. N: Disable (1 to 1 mode) |
| Default Value | N |
| Web User Interface Reference | Enable Multi Number |

[WIDEBAND_AUDIO_ENABLE](#)

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the wide band audio. If you set "Y", wide band audio and 8 simultaneous call are available. If you set "N", only narrow band audio and 16 simultaneous call are available. |
| Value Range | <ul style="list-style-type: none"> Y: Enable WB (simultaneous call is Max. 8) N: Disable (only NB, simultaneous call is Max. 16) |
| Default Value | N |

[FACTORY_RESET_ENABLE](#)

| | |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the operation of factory default and carrier default. |
| Value Range | <ul style="list-style-type: none"> Y: Enable factory reset operation N: Disable |
| Default Value | Y |

SIP_TRUNK_MODE_ENABLE

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether you are using a SIP trunk service or not. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable the usage of a SIP trunk service • N: Disable <p>Note</p> <p>If "Y" is specified, the settings for Line 2 to Line 8 of the following items are disabled.</p> <ul style="list-style-type: none"> • "Local SIP Port" in Web User Interface Programming • "SIP_SRC_PORT" in Configuration File Programming <p>The settings will be the same as Line 1.</p> |
| Default Value | N |
| Web User Interface Reference | Enable SIP Trunk Service |

SIP_NON_REGISTER_ENABLE

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable operation without registering the SIP UA (user agent). |
| Value Range | <ul style="list-style-type: none"> • Y: Enable operation without registering the SIP UA • N: Disable |
| Default Value | N |
| Web User Interface Reference | Enable Non-Registering SIP UA |

RTP_KEEP_ENABLE

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the continuous sending of RTP packets while a call is on hold. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable the continuous sending of RTP packets while a call is on hold • N: Disable |
| Default Value | N |
| Web User Interface Reference | Send RTP on Call Hold |

FWD_DND_MENU_ENABLE

| | |
|----------------------|------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the "FWD/DND" setting is displayed in MENU. |
| Value Range | <ul style="list-style-type: none"> • Y: Displayed • N: Not displayed |
| Default Value | Y |

BLOCK_ANONY_MENU_ENABLE

| | |
|----------------------|------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the "Block Anonymous" setting is displayed in MENU. |
| Value Range | <ul style="list-style-type: none"> • Y: Displayed • N: Not displayed |
| Default Value | Y |

ANONY_CALL_MENU_ENABLE

| | |
|----------------------|------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the "Anonymous Call" setting is displayed in MENU. |
| Value Range | <ul style="list-style-type: none"> • Y: Displayed • N: Not displayed |
| Default Value | Y |

TIME_ZONE_SET_ENABLE

| | |
|----------------------|------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the "Time Zone" setting is displayed in MENU. |
| Value Range | <ul style="list-style-type: none"> • Y: Displayed • N: Not displayed |
| Default Value | N |

AUTO_INPUT_KEY_TIME

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the number of seconds after which the cursor automatically moves to the next position during character input. |
| Value Range | 0–3 [0: off] |
| Default Value | 0 |

CALL_SETTINGS_MENU_ENABLE

| | |
|----------------------|------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the "Call Settings" setting is displayed in MENU. |
| Value Range | <ul style="list-style-type: none"> • Y: Displayed • N: Not displayed |
| Default Value | Y |

DISCLOSE_FUNCTION_ENABLE

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to use as a normal telephone or as a hotel telephone. |
| Value Range | <ul style="list-style-type: none"> • Y: Normal telephone • N: Hotel telephone |
| Note | <ul style="list-style-type: none"> • If "N" is specified, some functions and keys are limited. |
| Default Value | Y |

VM_FUNCTION_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the Voice Mail function is enabled. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable the Voice Mail function • N: Disable |
| Default Value | Y |

DELAY_RING_TIME_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies the length of time, in seconds, until the unit rings. |
| Value Range | 0–30 0: Disable |
| Default Value | 0 |

OFF_HOOK_MONITOR_ENABLE

| | |
|---------------------|--------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the Off-hook Monitor function. (KX-TPA65/KX-TPA68) |
| Value Range | <ul style="list-style-type: none"> • Y: Enable Off-hook Monitor • N: Disable |

4.3 System Settings

| | |
|---------------|---|
| Default Value | Y |
|---------------|---|

PRIVATE_HOLD_ENABLE

| | |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable "Private Hold". |
| Value Range | <ul style="list-style-type: none">• Y: Enable private hold• N: Disable <p>Note</p> <ul style="list-style-type: none">• (For KX-TPA60/KX-TPA65/KX-TPA70/KX-TPA73) If set to "Y" and TALKING_SOFT_KEY_C="0" and BLIND_TRANSFER_ENABLE="Y", "Private Hold" is displayed on Soft Key C. |
| Default Value | N |
| Web User Interface Reference | Private Hold |

CONF_OWNER_OUT_ENABLE

| | |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to allow the remaining two parties in a three-party conference to continue the conversation if the conference originator leaves the conference call (Unattended Conference). |
| Value Range | <ul style="list-style-type: none">• Y: Enable Unattended Conference• N: Disable |
| Default Value | N |

PCAP_ENABLE

| | |
|---------------|----------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable packet capturing using the Wireshark utility (PCAP Remote). |
| Value Range | <ul style="list-style-type: none">• Y: Enable PCAP Remote• N: Disable |
| Default Value | N |

PCAP_REMOTE_ID

| | |
|---------------|------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the ID of the IP phone whose packets will be captured using the Wireshark utility (PCAP Remote). |
| Value Range | 1–16 characters |
| Default Value | Empty string |

PCAP_REMOTE_PASS

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the password of the IP phone whose packets will be captured using the Wireshark utility (PCAP Remote). |
| Value Range | 0, 6–64 characters |
| Default Value | Empty string |

PCAP_REMOTE_PORT

| | |
|----------------------|------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port of the IP phone to use for capturing packets using the Wireshark utility (PCAP Remote). |
| Value Range | 1–65535 |
| Default Value | 2002 |

DTMF_OUT_ENABLE

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether received outband DTMF signals are output audibly. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable audible outband DTMF • N: Disable |
| Default Value | Y |

CANCEL_OPERATION_MODE

| | |
|----------------------|-----------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the operation of the [CANCEL] button when a line is in use. |
| Value Range | 0: Cancel the current operation 1: Return to standby mode |
| Default Value | 0 |

RANGE_ALARM_ENABLE

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the range alarm. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable the range alarm • N: Disable |
| Default Value | N |

NOTIFICATION_MENU_ENABLE

| | |
|---------------------|--------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to display the notification settings under MENU. |

4.3 System Settings

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">Y: Display the notification settingsN: Do not display |
| Default Value | Y |

NOTIFY_MISSEDCALL_ENABLE_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to display "Missed Calls" on the screen in standby mode. |
| Note | <ul style="list-style-type: none">This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y". |
| Value Range | <ul style="list-style-type: none">Y: Enable displaying "Missed Calls" in standby mode.N: Disable |
| Default Value | Y |
| Web User Interface Reference | Missed Call Notification - Message |

NOTIFY_VOICEMAIL_ENABLE_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to display "Voice MSG" on the screen in standby mode. |
| Note | <ul style="list-style-type: none">This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y". |
| Value Range | <ul style="list-style-type: none">Y: Enable displaying "Voice MSG" in standby mode.N: Disable |
| Default Value | Y |
| Web User Interface Reference | Voice Message Notification - Message |

NOTIFY_MISSEDCALL_LED_ENABLE_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|---------|
| Value Format | BOOLEAN |
|---------------------|---------|

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether the LED is used to indicate a missed call. |
| Note | <ul style="list-style-type: none"> This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y". |
| Value Range | <ul style="list-style-type: none"> Y: Enable LED indication for a missed call. N: Disable |
| Default Value | Y |
| Web User Interface Reference | Missed Call Notification - LED |

NOTIFY_VOICEMAIL_LED_ENABLE_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the LED is used to indicate a new voice message. |
| Note | <ul style="list-style-type: none"> This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y". |
| Value Range | <ul style="list-style-type: none"> Y: Enable LED indication for voice messages. N: Disable |
| Default Value | Y |
| Web User Interface Reference | Voice Message Notification - LED |

NOTIFY_VOICEMAIL_ALARM_ENABLE_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether an alarm sound is used to indicate a new voice message. |
| Note | <ul style="list-style-type: none"> This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y". |
| Value Range | <ul style="list-style-type: none"> Y: Enable alarms for voice messages. N: Disable |
| Default Value | Y |
| Web User Interface Reference | Voice Message Notification - Alarm |

NOTIFICATION_ALARM_TYPE

| | |
|---------------------|---------|
| Value Format | INTEGER |
|---------------------|---------|

4.3 System Settings

| | |
|----------------------|----------------------------------------------------------------------------------------------|
| Description | Specifies whether a voice mail alarm notification is used only the first time or every time. |
| Value Range | <ul style="list-style-type: none">• 0: First time only• 1: Every time |
| Default Value | 0 |

BOOTLOG_SERVER_URI

| | |
|----------------------|----------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI for a boot logging server. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |

NOISE_SUPPRESSOR_ENABLE

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the noise suppressor. |
| Value Range | <ul style="list-style-type: none">• Y: Enable the noise suppressor.• N: Disable |
| Default Value | N |

CODEC_VAD_CNG_ENABLE

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the VAD and CNG functions. (VAD: Voice Activity Detector, CNG: Comfort Noise Generator) |
| Value Range | <ul style="list-style-type: none">• Y: Enable the VAD and CNG functions• N: Disable |
| Default Value | N |

ERROR_AUTO_REBOOT_TIME

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the amount of time, in hours, until the unit automatically reboots when the SIP registration has been removed for all accounts. |
| Value Range | 0, 1-72 (0: Disable) |
| Default Value | 0 |

BLOCK_CID_MENU_ENABLE

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable displaying the "Block Caller ID" setting on the phone screen and in the Web user interface. |

| | |
|----------------------|-----------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> Y: Enable N: Disable |
| Default Value | Y |

LCD_BACKLIGHT_STBY_MENU_ENABLE

| | |
|----------------------|--------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the "Standby" setting in the "Backlight" settings of the phone menu. |
| Value Range | <ul style="list-style-type: none"> Y: Enable N: Disable |
| Default Value | N |

BOOTLOG_CYCLIC_INTVL

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in hours, that the unit will send the boot log. |
| Note | <ul style="list-style-type: none"> The URI of the boot logging server needs to be specified in BOOTLOG_SERVER_URI. When BOOTLOG_CYCLIC_INTVL="0", the boot log is sent only at startup. |
| Value Range | 0–24 |
| Default Value | 6 |

FULL_CHARGE_LED_ON_ENABLE (For KX-TPA60/KX-TPA70/KX-TPA73)

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the charge indicator turns on when the batteries are fully charged and the handset is placed in the charger. |
| Value Range | <ul style="list-style-type: none"> Y: The charge indicator turns on. N: The charge indicator turns off. |
| Default Value | Y |

POWER_ON_ENABLE (For KX-TPA60/KX-TPA70/KX-TPA73)

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the handset power will turn on when the batteries are inserted and the handset is placed in the charger while the power is off. |
| Value Range | <ul style="list-style-type: none"> Y: The handset power will turn on. N: The handset power remains off. |
| Default Value | Y |

EQUALIZER_TYPE (For KX-TPA68/KX-TPA70/KX-TPA73)

| | |
|----------------------|------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the initial voice quality. |
| Value Range | <ul style="list-style-type: none"> • 0: Normal • 1: Treble |
| Default Value | 0 |

VOICE_MODE (For KX-TPA68/KX-TPA70/KX-TPA73)

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the treble-range voice quality. |
| Value Range | <ul style="list-style-type: none"> • 0: Original treble quality • 1: Emphasize the treble range over the original |
| Default Value | 0 |

HOME_DISPLAY_PAGE_HSy (For KX-TPA68)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the page to display on startup. y=1–16 (Handset No.) |
| Value Range | <ul style="list-style-type: none"> • 1: The first page • 2: The second page • 3: The third page |
| Default Value | 1 |

HOME_DISPLAY_AUTO_HSy (For KX-TPA68)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to automatically switch the displayed screen when a call begins or changes. |
| Value Range | <ul style="list-style-type: none"> • y: Enable • n: Disable <p>If "y" is specified, the setting "HOME_DISPLAY_AUTO_MODE_HSy" determines which page is displayed.</p> |
| Default Value | y |

HOME_DISPLAY_AUTO_MODE_HSy (For KX-TPA68)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies which screen (page) the display is automatically switched to when a call begins or changes. |
| Value Range | <ul style="list-style-type: none"> • 1: Switch to page 1 • 2: Switch to the page specified in "HOME_DISPLAY_PAGE_HSy" |
| Default Value | 1 |

LINE_STATUS_PRIORITY_MODE (For KX-TPA68)

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the order of priority of the items displayed on the Line Notification screen. |
| Value Range | <ul style="list-style-type: none"> • 1: Prioritize the user's phone Order of priority: Incoming call [your phone] → On a call [your phone] → Call hold [your phone] → Incoming call [other phone] → Call hold [other phone] → On a call [other phone] • 2: Prioritize incoming calls Order of priority: Incoming call [your phone] → Incoming call [other phone] → Call hold [your phone] → On a call [your phone] → Call hold [other phone] → On a call [other phone] |
| Default Value | 1 |

MULTI_LINE_RING_SPLASH_ENABLE

| | |
|----------------------|----------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the "Ring Splash" feature when "MULTI_NUMBER_ENABLE"="Y" is set. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | N |

SHOW_FWD_ICON_ALL_SETTING

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies which "FWD" setting to display the "FWD" icon for. |
| Value Range | <ul style="list-style-type: none"> • Y: Display the "FWD" icon when at least one "FWD" setting is enabled. • N: Display the "FWD" icon only when "FWD ALL" is enabled. |
| Default Value | Y |

KEY_OPTION_MENU_ENABLE

| | |
|---------------------|------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the "Key Option" setting is displayed in "Setting Handset" MENU. |

4.3 System Settings

| | |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• Y: Displayed• N: Not displayed |
| Default Value | Y |

PROGRAM_KEY_MENU_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the "Program Key" setting is displayed in "Key Option" MENU. |
| Value Range | <ul style="list-style-type: none">• Y: Displayed• N: Not displayed |
| Default Value | Y |

SOFT_KEY_EDIT_MENU_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the "Soft Key Edit" and "Soft Key Name" setting is displayed in "Key Option" MENU. |
| Value Range | <ul style="list-style-type: none">• Y: Displayed• N: Not displayed |
| Default Value | Y |

CARRIER_RST_CERT_CLR_ENABLE

| | |
|----------------------|------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to delete the downloaded certification when resetting to "Carrier Defaults". |
| Value Range | <ul style="list-style-type: none">• Y: Delete• N: Do not delete |
| Default Value | Y |

PHONE_NUM_DIGITS_ON_LIK

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies maximum number of digits for phone number (PHONE_NUMBER_n) which can be displayed on Line Information Key. |
| Value Range | 0-32 <ul style="list-style-type: none">• 0: Not displayed• 1-32: The number of digits for phone number to be displayed |
| Default Value | 32 |

BOOTLOG_FORMAT

| | |
|---------------------|---------|
| Value Format | INTEGER |
|---------------------|---------|

| | |
|----------------------|----------------------------------------------------------------------------------|
| Description | Specifies the format of boot log. |
| Value Range | <ul style="list-style-type: none"> 0: Plain text 1: JSON |
| Default Value | 0 |

4.4 Handset Registration Settings

IPEI_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|---------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the handset's IPEI, which is used registering the handset to the base unit. |
| Value Range | 12 Digits, Decimal |
| Default Value | Empty string |

IPEI_AUTOREGMODE_ENABLE

| | |
|----------------------|------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to perform the HS registration mode automatically after IPEI was set. |
| Value Range | <ul style="list-style-type: none"> y: Enable automatically registration n: Disable |
| Default Value | n |

IPEI_RESTRICTION_ENABLE

| | |
|----------------------|----------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to perform the HS registration limit after IPEI was set. |
| Value Range | <ul style="list-style-type: none"> y: Enable registration limit n: Disable |
| Default Value | n |

NEXT_REGISTERED_HS_NUMBER

| | |
|---------------------|---------|
| Value Format | INTEGER |
|---------------------|---------|

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the handset number to register or deregister. <ul style="list-style-type: none">• 0: The handset number will be registered in order starting with the lowest available number. (1 to 16)• 1–16: If the specified handset number is already registered, it will be deregistered. If the specified handset number is not registered, it will be registered. |
| Note | <ul style="list-style-type: none"> • If the handset IPEI parameters are registered on a base unit, this setting is invalid. |
| Value Range | 0–16 (0: Normal order, 1: handset 1, 2: handset 2, ..., 16: handset 16) |
| Default Value | 0 |

IPEI_CHANGE_HS_ENABLE

| | |
|----------------------|------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the ability to change handset registration with IPEI. |
| Value Range | <ul style="list-style-type: none"> • y: Enable changing • n: Disable |
| Default Value | n |

4.5 Basic Network Settings

IP_ADDR_MODE

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the IP addressing mode. |
| Value Range | <ul style="list-style-type: none"> • 0: IPv4 • 1: IPv6 • 2: IPv4&IPv6 |
| Default Value | 0 |
| Web User Interface Reference | IP Addressing Mode |

CONNECTION_TYPE

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to assign the IP address automatically (DHCP) or manually (static) for IPv4. |
| Value Range | <ul style="list-style-type: none"> • 0: Static • 1: DHCP |
| Default Value | 1 |
| Web User Interface Reference | Connection Mode |

STATIC_IP_ADDRESS

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | IPADDR |
| Description | <p>Specifies the IP address for the unit for IPv4.</p> <p>Note</p> <ul style="list-style-type: none"> • This setting is available only when "CONNECTION_TYPE" is set to "0". • When you specify this parameter, you must specify "STATIC_SUBNET" together in a configuration file. |
| Value Range | Max. 15 characters n.n.n.n [n=0–255] |
| Default Value | Empty string |
| Web User Interface Reference | IP Address |

STATIC_SUBNET

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | IPADDR |
| Description | <p>Specifies the subnet mask for IPv4.</p> <p>Note</p> <ul style="list-style-type: none"> • This setting is available only when "CONNECTION_TYPE" is set to "0". • When you specify this parameter, you must specify "STATIC_IP_ADDRESS" together in a configuration file. |
| Value Range | Max. 15 characters n.n.n.n [n=0–255] |
| Default Value | Empty string |
| Web User Interface Reference | Subnet Mask |

STATIC_GATEWAY

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | IPADDR |
| Description | <p>Specifies the IP address of the default gateway for the IPv4 network where the unit is connected.</p> <p>Note</p> <ul style="list-style-type: none"> • This setting is available only when "CONNECTION_TYPE" is set to "0". • When you specify this parameter, you must specify "STATIC_IP_ADDRESS" and "STATIC_SUBNET" together in a configuration file. |
| Value Range | Max. 15 characters n.n.n.n [n=0–255] |
| Default Value | Empty string |
| Web User Interface Reference | Default Gateway |

USER_DNS1_ADDR

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Value Format | IPADDR |
| Description | Specifies the IP address of the primary DNS server for IPv4. |
| Note | <ul style="list-style-type: none"> This setting is available only when "CONNECTION_TYPE" is set to "0". |
| Value Range | Max. 15 characters n.n.n.n [n=0–255] |
| Default Value | Empty string |
| Web User Interface Reference | DNS1 |

USER_DNS2_ADDR

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Value Format | IPADDR |
| Description | Specifies the IP address of the secondary DNS server for IPv4. |
| Note | <ul style="list-style-type: none"> This setting is available only when "CONNECTION_TYPE" is set to "0". |
| Value Range | Max. 15 characters n.n.n.n [n=0–255] |
| Default Value | Empty string |
| Web User Interface Reference | DNS2 |

DHCP_DNS_ENABLE

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable using the DNS server obtained by DHCPv4. |
| Note | <ul style="list-style-type: none"> This setting is available only when "CONNECTION_TYPE" is set to "1". |
| Value Range | <ul style="list-style-type: none"> Y: Not use (use static DNS) N: Use DNS obtained by DHCPv4 |
| Default Value | N |
| Web User Interface Reference | Auto DNS via DHCP |

DHCP_HOST_NAME

| | |
|---------------------|----------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the host name to option12 in DHCPv4 or option15 in DHCPv6. |

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | Max. 64 characters (except ", &, ', <, >, ., and space) |
| Note | <ul style="list-style-type: none"> If "{MODEL}" is included in this parameter, it will be replaced with the unit's model name. If "{MAC}" is included in this parameter, it will be replaced with the device's MAC address in uppercase letters. If "{mac}" is included in this parameter, it will be replaced with the device's MAC address in lowercase letters. |
| Default Value | {MODEL} |
| Web User Interface Reference | DHCP Host Name |

DHCP_VENDOR_CLASS

| | |
|----------------------|-------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the vendor class to option60 in DHCPv4 or option16 in DHCPv6. |
| Value Range | Max. 64 characters |
| Default Value | Panasonic |

CONNECTION_TYPE_IPV6

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the IP address setting mode for IPv6. |
| Value Range | <ul style="list-style-type: none"> 0: Static 1: DHCP 2: Stateless Autoconfiguration |
| Default Value | 1 |
| Web User Interface Reference | Connection Mode |

STATIC_IP_ADDRESS_IPV6

| | |
|-------------------------------------|--------------------------------------------------------------------------|
| Value Format | IPADDR-V6 |
| Description | Specifies the IP address for IPv6. |
| Value Range | Max. 39 characters n:n:n:n:n:n:n:n [n=0xFFFF, abbreviation available] |
| Default Value | Empty string |
| Web User Interface Reference | IP Address |

PREFIX_IPV6

| | |
|----------------------|--------------------------------|
| Value Format | INTEGER |
| Description | Specifies the prefix for IPv6. |
| Value Range | 0–128 |
| Default Value | 64 |

4.5 Basic Network Settings

| | |
|------------------------------|--------|
| Web User Interface Reference | Prefix |
|------------------------------|--------|

STATIC_GATEWAY_IPV6

| | |
|-------------------------------------|--------------------------------------------------------------------------|
| Value Format | IPADDR-V6 |
| Description | Specifies the default gateway for IPv6. |
| Value Range | Max. 39 characters n:n:n:n:n:n:n:n [n=0xFFFF, abbreviation available] |
| Default Value | Empty string |
| Web User Interface Reference | Default Gateway |

USER_DNS1_ADDR_IPV6

| | |
|-------------------------------------|--------------------------------------------------------------------------|
| Value Format | IPADDR-V6 |
| Description | Specifies the IP address of primary DNS server for IPv6. |
| Value Range | Max. 39 characters n:n:n:n:n:n:n:n [n=0xFFFF, abbreviation available] |
| Default Value | Empty string |
| Web User Interface Reference | DNS1 |

USER_DNS2_ADDR_IPV6

| | |
|-------------------------------------|--------------------------------------------------------------------------|
| Value Format | IPADDR-V6 |
| Description | Specifies the IP address of secondary DNS server for IPv6. |
| Value Range | Max. 39 characters n:n:n:n:n:n:n:n [n=0xFFFF, abbreviation available] |
| Default Value | Empty string |
| Web User Interface Reference | DNS2 |

DHCP_DNS_ENABLE_IPV6

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable using the DNS server obtained by DHCPv6. |
| Value Range | <ul style="list-style-type: none">• Y: Not use (use static DNS)• N: Use DNS obtained by DHCPv6 |
| Default Value | N |
| Web User Interface Reference | Auto DNS via DHCP |

NW_TEST_COUNT

| | |
|----------------------|------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the number trials for a PING network test. |
| Value Range | 1–16 |
| Default Value | 4 |

NW_TEST_TIMER

| | |
|----------------------|----------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies the length of time, in seconds, for a PING network test timeout. |
| Value Range | 1–10 |
| Default Value | 5 |

DHCPCD_RECOVERY_TIME

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the time, in seconds, for DHCP recovery. When this parameter is set to "0", the recovery process is not performed. |
| Value Range | 0, 30–3600 |
| Default Value | 0 |

DHCP_OPTION100_ENABLE

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to use DHCP option 100 to get the settings for Time Zone and Daylight Saving Time. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable <p>Note</p> <ul style="list-style-type: none"> • If "Y" is specified, the settings for Time Zone and Daylight Saving Time are retrieved as IEEE 1003.1 POSIX. • If "Y" is specified, the following settings are disabled. <ul style="list-style-type: none"> – Phone User Interface: Menu - System Settings - System Settings - Time Zone – Web User Interface: System - Time Adjust Settings - TimeZone – Web User Interface: System - Time Adjust Settings - Daylight Saving Time – Web User Interface: System - Time Adjust Settings - Start Day and Time of DST – Web User Interface: System - Time Adjust Settings - End Day and Time of DST – Configuration File Parameter: TIME_ZONE, DST_ENABLE, DST_OFFSET, DST_START_MONTH, DST_START_ORDINAL_DAY, DST_START_TIME, DST_START_DAY_OF_WEEK, DST_STOP_MONTH, DST_STOP_TIME, DST_STOP_ORDINAL_DAY, DST_STOP_DAY_OF_WEEK. |
| Default Value | N |

4.6 Ethernet Port Settings

[PHY_MODE_LAN](#)

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the link speed and duplex mode of the LAN port. |
| Value Range | <ul style="list-style-type: none"> • 1: Auto Negotiation • 2: 100Mbps/Full Duplex • 3: 100Mbps/Half Duplex • 4: 10Mbps/Full Duplex • 5: 10Mbps/Half Duplex |
| Default Value | 1 |
| Web User Interface Reference | LAN Port |

[VLAN_ENABLE](#)

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to use the VLAN feature to perform VoIP communication securely. |
| Note | <ul style="list-style-type: none"> • You should specify "Y" for only one of "LLDP_ENABLE" or "VLAN_ENABLE". <p>If "Y" is specified for two or more of the parameters above, the settings are prioritized as follows: "VLAN_ENABLE" > "LLDP_ENABLE". Therefore, if "Y" is specified for both "VLAN_ENABLE" and "LLDP_ENABLE", the VLAN-related settings are used.</p> |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | N |
| Web User Interface Reference | Enable VLAN |

[VLAN_ID_IP_PHONE](#)

| | |
|-------------------------------------|--------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the VLAN ID for this unit. |
| Value Range | 0–4094 |
| Default Value | 2 |
| Web User Interface Reference | VLAN ID |

[VLAN_PRI_IP_PHONE](#)

| | |
|---------------------|---------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the priority number for the unit. |

| | |
|-------------------------------------|----------|
| Value Range | 0–7 |
| Default Value | 7 |
| Web User Interface Reference | Priority |

LLDP_ENABLE

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the LLDP-MED feature. |
| Note | <ul style="list-style-type: none"> You should specify "Y" for only one of "LLDP_ENABLE", or "VLAN_ENABLE". If "Y" is specified for two or more of the parameters above, the settings are prioritized as follows: VLAN_ENABLE > LLDP_ENABLE. Therefore, if "Y" is specified for both "VLAN_ENABLE" and "LLDP_ENABLE", the VLAN-related settings are used. |
| Value Range | <ul style="list-style-type: none"> Y: Enable LLDP-MED N: Disable |
| Default Value | Y |
| Web User Interface Reference | Enable LLDP |

LLDP_INTERVAL

| | |
|-------------------------------------|----------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in seconds, between sending each LLDP frame. |
| Value Range | 1–3600 |
| Default Value | 30 |
| Web User Interface Reference | Packet Interval |

CDP_ENABLE

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the CDP feature. |
| Value Range | <ul style="list-style-type: none"> Y: Enable CDP N: Disable |
| Default Value | N |
| Web User Interface Reference | Enable CDP |

CDP_INTERVAL

| | |
|---------------------|----------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in seconds, between sending each CDP frames. |
| Value Range | 1–3600 |

4.7 Pre-Provisioning Settings

| | |
|-------------------------------------|-----------------|
| Default Value | 30 |
| Web User Interface Reference | Packet Interval |

4.7 Pre-Provisioning Settings

SIPPNP_PROV_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the SIP PnP provisioning. |
| Value Range | <ul style="list-style-type: none">• Y: Enable SIP PnP provisioning• N: Disable |
| Default Value | Y |

OPTION66_ENABLE

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the DHCP option 66 provisioning. |
| Note | <ul style="list-style-type: none">• The unit will try to download configuration files through the TFTP server, the IP address or FQDN of which is specified in the option number 66 field. |
| Value Range | <ul style="list-style-type: none">• Y: Enable DHCP option66 provisioning• N: Disable |
| Default Value | Y |

OPTION159_PROV_ENABLE

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the DHCP option159 provisioning. |
| Value Range | <ul style="list-style-type: none">• Y: Enable DHCP option159 provisioning• N: Disable |
| Default Value | Y |

OPTION160_PROV_ENABLE

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the DHCP option160 provisioning. |
| Value Range | <ul style="list-style-type: none">• Y: Enable DHCP option160 provisioning• N: Disable |
| Default Value | Y |

DHCPV6_OPTION17_PROV_ENABLE

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable DHCPv6 option17 provisioning. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable DHCPv6 option17 provisioning • N: Disable |
| Default Value | Y |

4.8 Provisioning Settings

CFG_STANDARD_FILE_PATH

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URL of the standard configuration file, which is used when every unit needs different settings. |
| Value Range | Max. 384 characters Note <ul style="list-style-type: none"> • If this URL ends with "/" (slash), "Config{mac}.cfg" is automatically added at the end of the URL. For example, <code>CFG_STANDARD_FILE_PATH="http:// host/dir/"</code> becomes <code>CFG_STANDARD_FILE_PATH="http://host/dir/Config{mac}.cfg"</code>. • For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |
| Web User Interface Reference | Standard File URL |

CFG_PRODUCT_FILE_PATH

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URL of the product configuration file, which is used when all units with the same model number need the same settings. |
| Value Range | Max. 384 characters Note <ul style="list-style-type: none"> • If this URL ends with "/" (slash), "{MODEL}.cfg" is automatically added at the end of the URL. For example, <code>CFG_PRODUCT_FILE_PATH="http://host/ dir/"</code> becomes <code>CFG_PRODUCT_FILE_PATH="http:// host/dir/{MODEL}.cfg"</code>. • For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |
| Web User Interface Reference | Product File URL |

CFG_MASTER_FILE_PATH

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URL of the master configuration file, which is used when all units need the same settings. |
| Value Range | Max. 384 characters |
| | <p>Note</p> <ul style="list-style-type: none"> • If this URL ends with "/" (slash), "sip.cfg" is automatically added at the end of the URL. For example, <code>CFG_MASTER_FILE_PATH="http://host/ dir/"</code> becomes <code>CFG_MASTER_FILE_PATH="http:// host/dir/sip.cfg"</code>. • For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |
| Web User Interface Reference | Master File URL |

CFG_CYCLIC

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the unit periodically checks for updates of configuration files. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable periodic synchronization • N: Disable |
| Default Value | N |
| Web User Interface Reference | Cyclic Auto Resync |

CFG_CYCLIC_INVL

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in minutes, between periodic checks for updates of the configuration files. |
| Value Range | 1–40320 |
| Default Value | 10080 |
| Web User Interface Reference | Resync Interval |

CFG_RESYNC_TIME

| | |
|---------------------|-------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the time (hour:minute) that the unit checks for updates of configuration files. |

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | 00:00–23:59 |
| Note | <ul style="list-style-type: none"> If the value for this setting is any valid value other than an empty string, the unit downloads the configuration files at the fixed time, and the settings specified in "CFG_CYCLIC", "CFG_CYCLIC_INTVL", and "CFG_RTRY_INTVL" are disabled. If the value for this setting is an empty string, downloading the configuration files at the fixed time are disabled. |
| Default Value | Empty string |
| Web User Interface Reference | Time Resync |

CFG_RTRY_INTVL

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the period of time, in minutes, that the unit will retry checking for an update of the configuration files after a configuration file access error has occurred. |
| Value Range | 1–1440 |
| Default Value | 30 |

CFG_RESYNC_FROM_SIP

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the value of the "Event" header sent from the SIP server to the unit so that the unit can access the configuration files on the provisioning server. |
| Value Range | Max. 15 characters |
| Default Value | check-sync |
| Web User Interface Reference | Header Value for Resync Event |

CFG_RESYNC_ACTION

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the value of the action after received resync NOTIFY. |
| Value Range | <ul style="list-style-type: none"> 0: Provisioning 1: TR-069 Inform 2: Reboot |
| Default Value | 0 |

CFG_FILE_KEY2

| | |
|---------------------|--------|
| Value Format | STRING |
|---------------------|--------|

4.8 Provisioning Settings

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the encryption key (password) used to decrypt configuration files. |
| | Note <ul style="list-style-type: none">If the extension of the configuration file is ".e2c", the configuration file will be decrypted using this key. |
| Value Range | 32 characters |
| | Note <ul style="list-style-type: none">If an empty string is set for this parameter, decryption with this value is disabled. |
| Default Value | Empty string |

CFG_FILE_KEY3

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the encryption key (password) used to decrypt configuration files. |
| | Note <ul style="list-style-type: none">If the extension of the configuration file is ".e3c", the configuration file will be decrypted using this key. |
| Value Range | 32 characters |
| | Note <ul style="list-style-type: none">If an empty string is set for this parameter, decryption with this value is disabled. |
| Default Value | Empty string |

CFG_FILE_KEY_LENGTH

| | |
|----------------------|------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the key lengths in bits used to decrypt configuration files. |
| Value Range | 128,192, 256 |
| Default Value | 192 |

CFG_ROOT_CERTIFICATE_PATH

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the root certificate is stored. |
| | Note <ul style="list-style-type: none">Changing this setting may require restarting the unit. |
| Value Range | Max. 384 characters |
| | Note <ul style="list-style-type: none">For details about the formats, see 2.1.3 Server Address Formats. |

| | |
|----------------------|--------------|
| Default Value | Empty string |
|----------------------|--------------|

CFG_CLIENT_CERT_PATH

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the client certificate is stored. |
| Value Range | Max. 384 characters Note <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

CFG_PKEY_PATH

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the private key is stored. |
| Value Range | Max. 384 characters Note <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

HTTP_SSL_VERIFY

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to enable the verification of the root certificate. |
| Value Range | <ul style="list-style-type: none"> 0: No verification of root certificate 1: Simple verification of root certificate 2: Precise verification of root certificate Note <ul style="list-style-type: none"> If set to "0", the verification of the root certificate is disabled. If set to "1", the verification of the root certificate is enabled. In this case, the validity of the certificate's date, certificate's chain, and the confirmation of the root certificate will be verified. If set to "2", precise certificate verification is enabled. In this case, the validity of the server name will be verified in addition to the items verified when "1" is set. If the unit has not obtained the current time and "HTTP_SSL_TIME_ASYNC_VERIFY" is set to "Y", verification will be performed. |
| Default Value | 0 |

CFG_RESYNC_DURATION

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies, in minutes, a time range during which connected units can access the server. Units will download configuration files at a random time within this range. |
| Value Range | 0–1439 |
| Default Value | 0 |

CFG_BOOTUP_DURATION_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable "CFG_RESYNC_TIME" and "CFG_RESYNC_DURATION" at startup. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | Y |

HTTP_SSL_TIME_ASYNC_VERIFY

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable verification of the root certificate when the unit has not obtained the current time from the NTP server. |
| Note | <ul style="list-style-type: none"> • If set to "Y", verification will be performed according to the value set for "HTTP_SSL_VERIFY". |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | N |

SETTING_PRIORITY_OPTION

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether allow settings to be changed with the configuration file after the user has specified settings through the phone interface or the Web interface. |
| Value Range | <ul style="list-style-type: none"> • 0: Allow settings that have been specified through the phone interface or the Web interface to be changed by any type of configuration file (Standard, Product, or Master). • 1: Do not allow settings that have been specified through the phone interface or the Web interface to be changed by the Master configuration file. • 2: Do not allow settings that have been specified through the phone interface or the Web interface to be changed by any type of configuration file (Standard, Product, or Master). |
| Default Value | 0 |

CFG_RTRY_INVL_MODE

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the mode when downloading the configuration file is retried. |
| Value Range | <ul style="list-style-type: none"> 0: Retries according to the setting of "CFG_RTRY_INVL". The retry interval time is constant. 1: Retries according to the settings of "CFG_RTRY_INVL", "CFG_RTRY_TIMES" and "CFG_RTRY_TM". The retry interval time is variable. <p>Note</p> <p>If set to "1", the use of "CFG_RESYNC_TIME" is recommended, because the configuration file is not downloaded after retrying ends.</p> |
| Default Value | 0 |

CFG_RTRY_TIMES

| | |
|----------------------|-------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the number of retries. |
| Note | This setting is available only when "CFG_RTRY_INVL_MODE" is set to "1". |
| Value Range | 1–10 |
| Default Value | 5 |

CFG_RTRY_TM

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the multiplier for the retry interval time. |
| Note | <ul style="list-style-type: none"> The next retry interval time is determined by multiplying the previous retry interval time by this parameter. [Example] If "CFG_RTRY_INVL_MODE"="1", "CFG_RTRY_INVL"="2", "CFG_RTRY_TIMES"="5", and "CFG_RTRY_TM"="3" the retry intervals are as follows. First retry interval: 2 minutes Second retry interval: 6 minutes (first retry interval: 2 min × "CFG_RTRY_TM": 3) Third retry interval: 18 minutes (second retry interval: 6 min × "CFG_RTRY_TM": 3) This setting is available only when "CFG_RTRY_INVL_MODE" is set to "1". |
| Value Range | 1–10 |
| Default Value | 1 |

CFG_DL_WEEKLY_INTERVAL

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval number of weeks to download the configuration file. |
| Value Range | 0–8 Note <ul style="list-style-type: none"> If this setting is set "0", configuration file is downloaded every day as below: <ul style="list-style-type: none"> Set a time by specifying "CFG_RESYNC_TIME". Set a duration by specifying "CFG_RESYNC_DURATION". |
| Default Value | 0 |

CFG_DL_WEEKLY_DAY_OF_WEEK

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the day of week to download the configuration file. |
| Value Range | 0–6 <ul style="list-style-type: none"> 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday |
| Default Value | 0 |

4.9 Firmware Update Settings

FIRM_UPGRADE_ENABLE

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to perform firmware updates when the unit detects a newer version of firmware. Note <ul style="list-style-type: none"> Local firmware updates from the Web user interface (→ see 3.7.3 Upgrade Firmware) can be performed regardless of this setting. Firmware updates using TR-069 can be performed regardless of this setting. |
| Value Range | <ul style="list-style-type: none"> y: Enable firmware updates n: Disable firmware updates |

| | |
|-------------------------------------|------------------------|
| Default Value | Y |
| Web User Interface Reference | Enable Firmware Update |

FIRM_FILE_PATH

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URL where the firmware file is stored. Note <ul style="list-style-type: none"> This setting is available only when "FIRM_UPGRADE_ENABLE" is set to "Y". |
| Value Range | Max. 384 characters Note <ul style="list-style-type: none"> If "{fwver}" is included in this parameter, it will be replaced with the value specified in [Firmware Version]. For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |
| Web User Interface Reference | Firmware File URL |

FIRM_VERSION

| | |
|----------------------|---------------------------------------------|
| Value Format | STRING |
| Description | Specifies the firmware version of the unit. |
| Value Range | Max. 32 characters |
| Default Value | Empty string |

FWDL_RANDOM_DURATION

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies, in minutes, a time range during which connected units can access the server. Units will download the firmware file at a random time within this range. |
| Value Range | 0–1439 |
| Default Value | 0 |

4.10 HTTP Settings

HTTP_VER

| | |
|---------------------|-----------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies which version of the HTTP protocol to use for HTTP communication. |

4.10 HTTP Settings

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• 1: Use HTTP/1.0• 0: Use HTTP/1.1 |
| Note | <ul style="list-style-type: none">• For this unit, it is strongly recommended that you specify "1" for this setting. However, if the HTTP server does not function well with HTTP/1.0, try changing the setting "0". |
| Default Value | 0 |
| Web User Interface Reference | HTTP Version |

HTTP_USER_AGENT

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the text string to send as the user agent in the header of HTTP requests. |
| Value Range | Max. 64 characters |
| Note | <ul style="list-style-type: none">• If "{mac}" is included in this parameter, it will be replaced with the unit's MAC address in lower-case.• If "{MAC}" is included in this parameter, it will be replaced with the unit's MAC address in upper-case.• If "{MODEL}" is included in this parameter, it will be replaced with the unit's model name.• If "{fwver}" is included in this parameter, it will be replaced with the firmware version of the unit. |
| Default Value | Panasonic_{MODEL}/{fwver} ({mac}) |
| Web User Interface Reference | HTTP User Agent |

HTTP_AUTH_ID

| | |
|-------------------------------------|---------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the authentication ID required to access the HTTP server. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | Authentication ID |

HTTP_AUTH_PASS

| | |
|-------------------------------------|---------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the authentication password required to access the HTTP server. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | Authentication Password |

HTTP_PROXY_ENABLE

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the HTTP proxy feature. |
| Value Range | <ul style="list-style-type: none"> • y: Enable HTTP proxy connect • n: Disable |
| Default Value | N |
| Web User Interface Reference | Enable Proxy |

HTTP_PROXY_ADDR

| | |
|-------------------------------------|-------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of the proxy server. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |
| Web User Interface Reference | Proxy Server Address |

HTTP_PROXY_PORT

| | |
|-------------------------------------|-----------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port of the proxy server. |
| Value Range | 1–65535 |
| Default Value | 8080 |
| Web User Interface Reference | Proxy Server Port |

HTTP_PROXY_ID

| | |
|----------------------|--------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the user ID for connecting HTTP proxy. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |

HTTP_PROXY_PASS

| | |
|----------------------|---------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the password for connecting HTTP proxy. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |

4.11 HTTPD/WEB Settings

HTTPD_LISTEN_PORT

| | |
|---------------------|-----------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port number of own HTTP server. |

4.11 HTTPD/WEB Settings

| | |
|----------------------|----------------|
| Value Range | 80, 1024–49151 |
| Default Value | 80 |

HTTPD_PORTOPEN_AUTO

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the unit's Web port is always open. |
| Value Range | <ul style="list-style-type: none">• Y: Web port is always open• N: Web port is closed [can be opened temporarily through phone user interface programming] |
| Notice | <ul style="list-style-type: none">• If you want to set to "Y", please fully recognize the possibility of unauthorized access to the unit through the Web user interface and change this setting at your own risk. In addition, please take full security measures for connecting to an external network and control all passwords for logging in to the Web user interface. |
| Default Value | N |

HTTPD_PORTCLOSE_TM

| | |
|----------------------|-------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies port close time when keeping the no action. |
| Value Range | 1–1440 |
| Default Value | 30 |

USER_ID

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the account ID used to access the Web user interface with the User account. |
| Value Range | Max. 16 characters (except !, ", #, \$, %, &, ', (,), @, *, +, ,, /, :, ;, <, =, >, ?, [,], ^, ` , {, , }, ~, \ and space) |
| Note | <ul style="list-style-type: none">• An empty string is not allowed.• A hyphen (-) cannot be used as the first character. |
| Default Value | user |

USER_PASS

| | |
|---------------------|-----------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the password to use to authenticate the User account when logging in to the Web user interface. |

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------|
| Value Range | 6–64 characters |
| Note | <ul style="list-style-type: none"> A hyphen (-) cannot be used as the first character. |
| Default Value | Empty string (only before a user accesses the Web user interface for the first time) |
| Web User Interface Reference | New Password |

ADMIN_ID

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the account ID used to access the Web user interface with the Admin account. |
| Value Range | Max. 16 characters (except !, ", #, \$, %, &, ', (,), @, *, +, ,, /, :, ;, <, =, >, ?, [,], ^, `,, {, , }, ~, \ and space) |
| Note | <ul style="list-style-type: none"> An empty string is not allowed. A hyphen (-) cannot be used as the first character. |
| Default Value | admin |

ADMIN_PASS

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the password to use to authenticate the Administrator account when logging in to the Web user interface. |
| Value Range | 6–64 characters |
| Note | <ul style="list-style-type: none"> A hyphen (-) cannot be used as the first character. |
| Default Value | adminpass |
| Web User Interface Reference | New Password |

4.12 TR-069 Settings

ACS_URL

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URL of the Auto-Configuration Server for using TR-069. |
| Note | <ul style="list-style-type: none"> This parameter must be in the form of a valid HTTP or HTTPS URL, as defined in RFC 3986. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |

ACS_USER_ID

| | |
|----------------------|---------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the user ID for the Auto-Configuration Server for using TR-069. |
| Value Range | Max. 256 characters (except ", &, :, <, >, and space) |
| Default Value | Empty string |

ACS_PASS

| | |
|----------------------|---------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the user password for the Auto-Configuration Server for using TR-069. |
| Value Range | Max. 256 characters (except ", &, :, <, >, and space) |
| Default Value | Empty string |

PERIODIC_INFORM_ENABLE

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether or not the CPE (Customer Premises Equipment) must periodically send CPE information to the ACS (Auto-Configuration Server) using the Inform method call. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | N |

PERIODIC_INFORM_INTERVAL

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval length, in seconds, when the CPE must attempt to connect with the ACS and call the Inform method. |
| Note | <ul style="list-style-type: none"> • This setting is available only when "PERIODIC_INFORM_ENABLE" is set to "Y". |
| Value Range | 30–2419200 |
| Default Value | 86400 |

PERIODIC_INFORM_TIME

| | |
|---------------------|--------|
| Value Format | STRING |
|---------------------|--------|

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the time (UTC) to determine when the CPE will initiate the periodic Inform method calls. |
| Note | <ul style="list-style-type: none"> Each Inform call must occur at this reference time plus or minus an integer multiple of the "PERIODIC_INFORM_INTERVAL". This "PERIODIC_INFORM_TIME" parameter is used only to set the "phase" of the periodic Informs. The actual value can be arbitrarily set far into the past or future. For example, if "PERIODIC_INFORM_INTERVAL" is set to 86400 (one day) and if "PERIODIC_INFORM_TIME" is set to midnight on a certain day, then periodic Informs will occur every day at midnight, starting from the set date. If the time is set to "unknown time", the start time depends on the CPE's settings. However, the "PERIODIC_INFORM_INTERVAL" must still be adhered to. If absolute time is not available to the CPE, its periodic Inform behavior must be the same as if the "PERIODIC_INFORM_TIME" parameter was set to the "unknown time". Time zones other than UTC are not supported. |
| Value Range | 4–32 characters date and time format |
| Default Value | 0001-01-01T00:00:00Z |

CON_REQ_USER_ID

| | |
|----------------------|---------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the user name used to authenticate an ACS making a Connection Request to the CPE. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |

CON_REQ_PASS

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the password used to authenticate an ACS making a Connection Request to the CPE. |
| Note | <ul style="list-style-type: none"> When the "CON_REQ_USER_ID" parameter is specified, an empty string for this parameter is not allowed. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |

ANNEX_G_STUN_ENABLE

| | |
|---------------------|---------|
| Value Format | BOOLEAN |
|---------------------|---------|

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether or not the CPE can use STUN. This applies only to the use of STUN in association with the ACS to allow UDP Connection Requests. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | N |

ANNEX_G_STUN_SERV_ADDR

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | <p>Specifies the host name or IP address of the STUN server for the CPE to send Binding Requests.</p> <p>Note</p> <ul style="list-style-type: none"> • This setting is available only when "ANNEX_G_STUN_ENABLE" is set to "Y". • If the value for this setting is an empty string and "ANNEX_G_STUN_ENABLE" is set to "Y", the CPE must use the address of the ACS extracted from the host portion of the ACS URL. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |

ANNEX_G_STUN_SERV_PORT

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | <p>Specifies the port number of the STUN server for the CPE to send Binding Requests.</p> <p>Note</p> <ul style="list-style-type: none"> • This setting is available only when "ANNEX_G_STUN_ENABLE" is set to "Y". |
| Value Range | 1–65535 |
| Default Value | 3478 |

ANNEX_G_STUN_USER_ID

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | <p>Specifies the STUN user name to be used in Binding Requests (only if message integrity has been requested by the STUN server).</p> <p>Note</p> <ul style="list-style-type: none"> • If the value for this setting is an empty string, the CPE must not send STUN Binding Requests with message integrity. |
| Value Range | Max. 256 characters (except ", & ', :, <, >, and space) |
| Default Value | Empty string |

ANNEX_G_STUN_PASS

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the STUN password to be used in computing the MESSAGE-INTEGRITY attribute used in Binding Requests (only if message integrity has been requested by the STUN server). When read, this parameter returns an empty string, regardless of the actual value. |
| Value Range | Max. 256 characters (except ", &, :, <, >, and space) |
| Default Value | Empty string |

ANNEX_G_STUN_MAX_KEEP_ALIVE

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the maximum period, in seconds, that STUN Binding Requests must be sent by the CPE for the purpose of maintaining the binding in the Gateway. This applies specifically to Binding Requests sent from the UDP Connection Request address and port. |
| Note | <ul style="list-style-type: none"> This setting is available only when "ANNEX_G_STUN_ENABLE" is set to "Y". |
| Value Range | 1–3600 |
| Default Value | 300 |

ANNEX_G_STUN_MIN_KEEP_ALIVE

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the minimum period, in seconds, that STUN Binding Requests can be sent by the CPE for the purpose of maintaining the binding in the Gateway. This limit applies only to Binding Requests sent from the UDP Connection Request address and port, and only those that do not contain the BINDING-CHANGE attribute. |
| Note | <ul style="list-style-type: none"> This setting is available only when "ANNEX_G_STUN_ENABLE" is set to "Y". |
| Value Range | 1–3600 |
| Default Value | 30 |

UDP_CON_REQ_ADDR_NOTIFY_LIMIT

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the minimum time, in seconds, between Active Notifications resulting from changes to the "UDPConnectionRequestAddress" (if Active Notification is enabled). |
| Value Range | 0–65535 |
| Default Value | 0 |

DEVICE_PROVISIONING_CODE

| | |
|----------------------|------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the device provisioning code for use with TR-106 parameters. |
| Value Range | Max. 64 characters |
| Default Value | Empty string |

TR069_REGISTERING

| | |
|----------------------|-----------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the line status that TR-069 outputs while the line is being registered. |
| Value Range | Max.16 characters |
| Default Value | Error |

TR069_REGISTERED

| | |
|----------------------|----------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the line status that TR-069 outputs when the line has been registered. |
| Value Range | Max.16 characters |
| Default Value | Registering |

4.13 XML Settings

XMLAPP_ENABLE

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the XML application feature. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable XML application • N: Disable |
| Default Value | N |
| Web User Interface Reference | Enable XMLAPP |

XMLAPP_USERID

| | |
|-------------------------------------|--------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the authentication ID required to access the XML application server. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | User ID |

XMLAPP_USERPASS

| | |
|-------------------------------------|----------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the authentication password used to access the XML application server. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | Password |

XMLAPP_LDAP_URL

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URL that is accessed when the phonebook is accessed, to check for XML data. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |
| Web User Interface Reference | LDAP URL |

XMLAPP_LDAP_USERID

| | |
|-------------------------------------|---------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the authentication ID required to access the LDAP server. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | User ID |

XMLAPP_LDAP_USERPASS

| | |
|-------------------------------------|-----------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the authentication password used to access the LDAP server. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | Password |

XMLAPP_NPB_SEARCH_TIMER

| | |
|----------------------|----------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the time which is for searching XML phonebook. |
| Value Range | 1–65535 |
| Default Value | 30 |

XMLAPP_LDAP_MAXRECORD

| | |
|---------------------|---------|
| Value Format | INTEGER |
|---------------------|---------|

4.13 XML Settings

| | |
|-------------------------------------|-----------------------------------------------------------------------------------|
| Description | Specifies the maximum number of search results to be returned by the LDAP server. |
| Value Range | 20–500 |
| Default Value | 20 |
| Web User Interface Reference | Max Hits |

XML_HTTPPD_PORT

| | |
|-------------------------------------|----------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the local HTTP port for XML application. |
| Value Range | 1–65535 |
| Default Value | 6666 |
| Web User Interface Reference | Local XML Port |

XML_ERROR_INFORMATION

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to display an error information when an error occurs. |
| Value Range | <ul style="list-style-type: none">• Y: Error information is displayed• N: Error information is not displayed |
| Default Value | Y |

XMLAPP_INCOMING_URL

| | |
|----------------------|------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URL that is accessed when the unit receives a call, to check for XML data. |
| Value Range | Max. 256 characters ("&" may also be used) |
| Default Value | Empty string |

XML_PHONEBOOK_URL

| | |
|----------------------|------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URL to download the XML phonebook file from. |
| Value Range | Max.256 characters |
| Default Value | Empty string |

XML_PHONEBOOK_CYCLIC_INVL

| | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in minutes, between periodic checks for updates to the XML phonebook. If this parameter is set to "0", the timing is the same as that for updating the configuration files. |
| Value Range | 0, 1–40320 |

| | |
|----------------------|---|
| Default Value | 0 |
|----------------------|---|

XMLAPP_SELECT_HS_PB

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to download an individual XML phonebook for each handset. |
| Value Range | <ul style="list-style-type: none"> • y: Enable individual phonebooks • n: Disable |
| Default Value | n |

XMLAPP_RCV_IP_ADDRESSx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | IPADDR |
| Description | x=1-20 Specifies the IP addresses from which XML (POST) may be received. |
| Note | <ul style="list-style-type: none"> • If no IP addresses are specified, XML (POST) can be received from any IP address |
| Value Range | Max. 15 characters n.n.n.n [n=0-255] |
| Default Value | Empty string |

XMLAPP_RCV_DOMAIN_NAMEx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|----------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1–2 Specifies the domain name from which XML (POST) may be received. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |

4.14 XSI Settings

XSI_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the Xsi service. |
| Value Range | <ul style="list-style-type: none"> • y: Enable Xsi service • n: Disable |
| Default Value | n |

4.14 XSI Settings

| | |
|------------------------------|------------------------|
| Web User Interface Reference | Enable Xtended Service |
|------------------------------|------------------------|

XSI_SERVER

| | |
|-------------------------------------|-----------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of the Xsi server. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |
| Web User Interface Reference | Server Address |

XSI_SERVER_TYPE

| | |
|-------------------------------------|------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the type of the Xsi server. |
| Value Range | <ul style="list-style-type: none">• HTTP• HTTPS |
| Default Value | HTTP |
| Web User Interface Reference | Protocol |

XSI_SERVER_PORT

| | |
|-------------------------------------|---------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port of the Xsi server. |
| Value Range | 1–65535 |
| Default Value | 80 |
| Web User Interface Reference | Port |

XSI_USERID_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | STRING |
| Description | Specifies the authentication ID required to access the Xsi server. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | User ID |

XSI_PASSWORD_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | STRING |
| Description | Specifies the authentication password required to access the Xsi server. |

| | |
|-------------------------------------|---------------------|
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | Password |

XSI_PHONEBOOK_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the Xsi phonebook service. |
| Value Range | <ul style="list-style-type: none"> • y: Enable Xsi phonebook • n: Disable |
| Default Value | n |
| Web User Interface Reference | Enable Phonebook |

XSI_PHONEBOOK_CYCLIC_INTVL

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in minutes, between periodic checks for updates of the Xsi Directory (Phonebook) files. If this parameter is set to "0", the timing is the same as updating the configuration files. |
| Value Range | 0–40320 |
| Default Value | 0 |

XSI_PHONEBOOK_RESYNC_DURATION

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the time range, in minutes, during which connected units can access the server. Xsi Directory (Phonebook) files will be downloaded at a random time within this range. |
| Value Range | 0–1439 |
| Default Value | 0 |

XSI_PHONEBOOK_TYPE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|-----------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the type of Xsi phonebook. |
| Value Range | 1: Group 2: GroupCommon 3: Enterprise 4: EnterpriseCommon 5: Personal |

4.14 XSI Settings

| | |
|-------------------------------------|----------------|
| Default Value | 1 |
| Web User Interface Reference | Phonebook Type |

XSI_CALLLOG_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the Xsi call log service. |
| Value Range | <ul style="list-style-type: none">• Y: Enable Xsi call log• N: Disable |
| | Note If this parameter is set to "Y", the "Call History on Home" feature is not available (KX-TPA70/KX-TPA73 only). |
| Default Value | N |
| Web User Interface Reference | Enable Call Log |

XSI_SIP_CREDENTIALS_ENABLE

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the XSI SIP Credentials feature. |
| Value Range | <ul style="list-style-type: none">• Y: Enable XSI SIP Credentials• N: Disable |
| Default Value | N |
| Web User Interface Reference | SIP Credentials |

BSD_GROUP_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the "Group" type for Xsi phonebooks. |
| Value Range | <ul style="list-style-type: none">• Y : Enable• N : Disable |
| Default Value | Y |
| Web User Interface Reference | Group |

BSD_GROUPCOM_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|---------|
| Value Format | BOOLEAN |
|---------------------|---------|

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| Description | Specifies whether to enable or disable the "GroupCommon" type for Xsi phonebooks. |
| Value Range | <ul style="list-style-type: none"> • Y : Enable • N : Disable |
| Default Value | Y |
| Web User Interface Reference | GroupCommon |

BSD_ENTERPRISE_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the "Enterprise" type for Xsi phonebooks. |
| Value Range | <ul style="list-style-type: none"> • Y : Enable • N : Disable |
| Default Value | Y |
| Web User Interface Reference | Enterprise |

BSD_ENTERPRISECOM_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the "EnterpriseCommon" type for Xsi phonebooks. |
| Value Range | <ul style="list-style-type: none"> • Y : Enable • N : Disable |
| Default Value | Y |
| Web User Interface Reference | EnterpriseCommon |

BSD_PERSONAL_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the "Personal" type for Xsi phonebooks. |
| Value Range | <ul style="list-style-type: none"> • Y : Enable • N : Disable |
| Default Value | Y |
| Web User Interface Reference | Personal |

4.15 XMPP (UC-ONE) Settings

BSD_MULTI_TYPE_ENABLE

| | |
|----------------------|------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether you can select the type of Xsi phonebook. |
| Value Range | <ul style="list-style-type: none">• Y: Enable• N: Disable |
| Default Value | Y |

XSI_ACTION_URL

| | |
|----------------------|-----------------------------------------|
| Value Format | STRING |
| Description | Specifies a part of the XSI-Action URL. |
| Value Range | Max. 256 characters |
| Default Value | com.broadsoft.xsi-actions/v2.0/user |

XSI_NAME_REPLACE_RULE

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the characters to make the name of the XSI Call Log the empty string. For example, if this parameter is set to "Unavailable" and the name in the XSI Call Log is "Unavailable", the name becomes the empty string. <ul style="list-style-type: none">• KX-TPA60/KX-TPA65/KX-TPA70/KX-TPA73 If this setting is the same as the name in the XSI Call Log, the phone number is displayed instead of the name. |
| Value Range | Max. 24 characters |
| Default Value | Empty string |

4.15 XMPP (UC-ONE) Settings

UC_ENABLE

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the UC service. |
| Value Range | <ul style="list-style-type: none">• Y: Enable UC service• N: Disable |
| Default Value | N |
| Web User Interface Reference | Enable UC |

UC_USERID_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|--------|
| Value Format | STRING |
|---------------------|--------|

| | |
|-------------------------------------|-------------------------------------------------------------------|
| Description | Specifies the authentication ID required to access the UC server. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | Handset 1–16 User ID |

UC_PASSWORD_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the authentication password required to access the UC server. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | Handset 1–16 Password |

XMPP_SERVER

| | |
|-------------------------------------|------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of the XMPP server. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |
| Web User Interface Reference | Server Address |

XMPP_PORT

| | |
|-------------------------------------|--------------------------------|
| Value Format | INTEGER |
| Description | Specifies the local XMPP port. |
| Value Range | 1–65535 |
| Default Value | 5222 |
| Web User Interface Reference | Local XMPP Port |

XMPP_TLS_VERIFY

| | |
|----------------------|-------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to enable the verification of the root certificate. |
| Value Range | 0: No verification 1: Simple verification 2: Precise verification |
| Default Value | 0 |

XMPP_ROOT_CERT_PATH

| | |
|---------------------|---------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the root certificate is stored. |

4.15 XMPP (UC-ONE) Settings

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Value Range | Max. 384 characters |
| Note | |
| | <ul style="list-style-type: none">For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

[XMPP_CLIENT_CERT_PATH](#)

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the client certificate is stored. |
| Value Range | Max. 384 characters |
| Note | |
| | <ul style="list-style-type: none">For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

[XMPP_PKEY_PATH](#)

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the private key is stored. |
| Value Range | Max. 384 characters |
| Note | |
| | <ul style="list-style-type: none">For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

[UC_DNSSRV_ENA](#)

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to request the DNS server to translate domain names into IP addresses using the SRV record. |
| Value Range | <ul style="list-style-type: none">Y: Enable DNS SRV lookupN: Disable |
| Default Value | N |

[UC_TCP_SRV_PREFIX](#)

| | |
|----------------------|------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies a prefix to add to the domain name when performing a DNS SRV lookup using TCP. |
| Value Range | Max. 32 characters |
| Default Value | _xmpp-client._tcp. |

UC_USERID_CASE_SENSITIVE

| | |
|----------------------|-----------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the authentication ID is case-sensitive when accessing the UC server. |
| Value Range | <ul style="list-style-type: none"> • Y : Enable • N : Disable |
| Default Value | N |

PRESENCE_MYPHONE_STATUS

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the default status of "My Phone" when "Presence" starts up. |
| Value Range | <ul style="list-style-type: none"> – 0: Available – 1: Away – 2: Busy – 3: Offline – 4: Invisible |
| Default Value | 0 |

PRESENCE_INVISIBLE_ENABLE

| | |
|----------------------|-------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies which operation to use when the status of "My Phone" is set to "Invisible" using the phone. |
| Value Range | <ul style="list-style-type: none"> • Y: Invisible • N: Offline |
| Default Value | N |

4.16 LDAP Settings

LDAP_ENABLE

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the LDAP service. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable LDAP service • N: Disable |
| Default Value | N |
| Web User Interface Reference | Enable LDAP |

LDAP_DNSSRV_ENABLE

| | |
|---------------------|---------|
| Value Format | BOOLEAN |
|---------------------|---------|

4.16 LDAP Settings

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to request the DNS server to translate domain names into IP addresses using the SRV record. |
| Value Range | <ul style="list-style-type: none">• y: Enable DNS SRV lookup• n: Disable |
| Default Value | n |
| Web User Interface Reference | Enable DNS SRV lookup |

LDAP_SERVER

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the common server host for LDAP servers. |
| Value Range | Max. 256 characters |
| | Note <ul style="list-style-type: none">• The LDAP server address should start with "ldap://" or "ldaps://". |
| Default Value | Empty string |
| Web User Interface Reference | Server Address |

LDAP_SERVER_MULTIx

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | STRING |
| Description | x=1-16 Specifies the server host of the individual LDAP server. If this setting is not specified, "LDAP_SERVER" is used. |
| Value Range | Max. 256 characters |
| | Note <ul style="list-style-type: none">• The LDAP server address should start with "ldap://" or "ldaps://". |
| Default Value | Empty string |
| Web User Interface Reference | Server Address |

LDAP_SERVER_PORT

| | |
|-------------------------------------|---------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the common port for LDAP servers. |
| Value Range | 1–65535 |
| Default Value | 389 |
| Web User Interface Reference | Port |

LDAP_SERVER_PORT_MULTIx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | x=1-16 Specifies the port of the individual LDAP server. If this setting is not specified, "LDAP_SERVER_PORT" is used. |
| Value Range | 1–65535 |
| Default Value | 389 |
| Web User Interface Reference | Port |

LDAP_MAXRECORD

| | |
|-------------------------------------|-----------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the maximum number of search results to be returned by the LDAP server. |
| Value Range | 20–500 |
| Default Value | 20 |
| Web User Interface Reference | Max Hits |

LDAP_NUMB_SEARCH_TIMER

| | |
|----------------------|-----------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the timer for searching telephone number. |
| Value Range | 1–65535 |
| Default Value | 30 |

LDAP_NAME_SEARCH_TIMER

| | |
|----------------------|-----------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the timer for searching name. |
| Value Range | 1–65535 |
| Default Value | 5 |

LDAP_USERID

| | |
|-------------------------------------|-------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the common authentication ID required to access LDAP servers. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | User ID |

LDAP_USERID_MULTIx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1-16 Specifies the authentication ID required to access the individual LDAP server. If this setting is not specified, "LDAP_USERID" is used. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | User ID |

LDAP_PASSWORD

| | |
|-------------------------------------|-------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the common authentication password required to access LDAP servers. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | Password |

LDAP_PASSWORD_MULTIX

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1-16 Specifies the authentication password required to access the individual LDAP server. If this setting is not specified, "LDAP_PASSWORD" is used. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |
| Web User Interface Reference | Password |

LDAP_NAME_FILTER

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the common name filter, which is the search criteria for name lookup, for LDAP servers. |
| Value Range | Max. 256 characters |
| Default Value | ((cn=%)(sn=%)) |
| Web User Interface Reference | Name Filter |

LDAP_NAME_FILTER_MULTIx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1-16 Specifies the name filter, which is the search criteria for name lookup, for the individual LDAP server. If this setting is not specified, "LDAP_NAME_FILTER" is used. |
| Value Range | Max. 256 characters |
| Default Value | ((cn=%)(sn=%)) |
| Web User Interface Reference | Name Filter |

LDAP_NUMB_FILTER

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the common number filter, which is the search criteria for number lookup, for LDAP servers. |
| Value Range | Max. 256 characters |
| Default Value | ((telephoneNumber=%)(mobile=%)(homePhone=%)) |
| Web User Interface Reference | Number Filter |

LDAP_NUMB_FILTER_MULTIx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1-16 Specifies the number filter, which is the search criteria for number lookup, for the individual LDAP server. If this setting is not specified, "LDAP_NUMB_FILTER" is used. |
| Value Range | Max. 256 characters |
| Default Value | ((telephoneNumber=%)(mobile=%)(homePhone=%)) |
| Web User Interface Reference | Number Filter |

LDAP_NAME_ATTRIBUTE

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the common name attributes in the records that are returned in LDAP search results for LDAP servers. |
| Value Range | Max. 256 characters |
| Default Value | cn,sn |
| Web User Interface Reference | Name Attributes |

LDAP_NAME_ATTRIBUTE_MULTIX

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1-16 Specifies the name attributes in the records that are returned in LDAP search results for the individual LDAP server. If this setting is not specified, "LDAP_NAME_ATTRIBUTE" is used. |
| Value Range | Max. 256 characters |
| Default Value | cn,sn |
| Web User Interface Reference | Name Attributes |

LDAP_NUMB_ATTRIBUTE

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the common number attributes in the records that are returned in LDAP search results for LDAP servers. |
| Value Range | Max. 256 characters |
| Default Value | telephoneNumber,mobile,homePhone |
| Web User Interface Reference | Number Attributes |

LDAP_NUMB_ATTRIBUTE_MULTIX

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1-16 Specifies the number attributes in the records that are returned in LDAP search results for the individual LDAP server. If this setting is not specified, "LDAP_NUMB_ATTRIBUTE" is used. |
| Value Range | Max. 256 characters |
| Default Value | telephoneNumber,mobile,homePhone |
| Web User Interface Reference | Number Attributes |

LDAP_BASEDN

| | |
|-------------------------------------|------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the common entry information on the screen for LDAP servers. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |
| Web User Interface Reference | Distinguished Name(Base DN) |

LDAP_BASEDN_MULTIx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1-16 Specifies the entry information on the screen for the individual LDAP server. If this setting is not specified, "LDAP_BASEDN" is used. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |
| Web User Interface Reference | Distinguished Name(Base DN) |

LDAP_SSL_VERIFY

| | |
|----------------------|-------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to enable the verification of the root certificate. |
| Value Range | 0: No verification 1: Simple verification 2: Precise verification |
| Default Value | 0 |

LDAP_SSL_VERIFY_MULTIx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | x=1-16 Specifies whether to enable the verification of the root certificate. If this setting is not specified, "LDAP_SSL_VERIFY" is used. |
| Value Range | 0: No verification 1: Simple verification 2: Precise verification |
| Default Value | 0 |

LDAP_ROOT_CERT_PATH

| | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the common URI where the root certificate is stored for LDAP servers. |
| Value Range | Max. 384 characters |
| Note | <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |

LDAP_ROOT_CERT_PATH_MULTIx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1-16 Specifies the URI where the root certificate is stored for the individual LDAP server. If this setting is not specified, "LDAP_ROOT_CERT_PATH" is used. |
| Value Range | Max. 384 characters |
| | Note <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

LDAP_CLIENT_CERT_PATH

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the client certificate is stored. |
| Value Range | Max. 384 characters |
| | Note <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

LDAP_CLIENT_CERT_PATH_MULTIx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1-16 Specifies the URI where the client certificate is stored. If this setting is not specified, "LDAP_CLIENT_CERT_PATH" is used. |
| Value Range | Max. 384 characters |
| | Note <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

LDAP_PKEY_PATH

| | |
|---------------------|----------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the private key is stored. |

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------|
| Value Range | Max. 384 characters |
| Note | <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

LDAP_PKEY_PATH_MULTIx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1-16 Specifies the URI where the private key is stored. If this setting is not specified, "LDAP_PKEY_PATH" is used. |
| Value Range | Max. 384 characters |
| Note | <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

LDAP_DISPLAY_FORMAT

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the common display format by using the attributes (e.g., cn, sn) specified in "LDAP_NAME_ATTRIBUTE" and connecting punctuation (e.g., space, hyphen, comma) for LDAP servers. |
| Value Range | Max. 256 characters |
| Note | <ul style="list-style-type: none"> "%cn %sn" is used if this setting is NULL. For example, if cn=John, sn=Doe, and LDAP_DISPLAY_FORMAT="%sn, %cn", then "Doe, John" is displayed. |
| Default Value | Empty string |

LDAP_DISPLAY_FORMAT_MULTIx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1-16 Specifies the display format by using the attributes (e.g., cn, sn) specified in "LDAP_NAME_ATTRIBUTE" and connecting punctuation (e.g., space, hyphen, comma) for the individual LDAP server. If this setting is not specified, "LDAP_DISPLAY_FORMAT" is used. |

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | Max. 256 characters |
| Note | <ul style="list-style-type: none"> • "%cn %sn" is used if this setting is NULL. • For example, if cn=John, sn=Doe, and LDAP_DISPLAY_FORMAT_MULTIx="%sn, %cn", then "Doe, John" is displayed. |
| Default Value | Empty string |

4.17 SNMP Settings

Note

- Changing SNMP setting may require restarting the unit.

[SNMP_ENABLE](#)

| | |
|----------------------|--------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable SNMP feature. |
| Value Range | <ul style="list-style-type: none"> • y: Enable SNMP • n: Disable |
| Default Value | N |

[SNMP_TRUST_IP](#)

| | |
|----------------------|--------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of the trusted SNMP server. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |

[SNMP_TRUST_PORT](#)

| | |
|----------------------|------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port of the trusted SNMP server. |
| Value Range | 1–65535 |
| Default Value | 161 |

[SNMP_RO_COMMUNITY_STRING](#)

| | |
|----------------------|---------------------------------------------|
| Value Format | STRING |
| Description | Specifies the community name for read-only. |
| Value Range | Max. 32 characters |
| Default Value | Empty string |

[SNMP_SECURITY_TYPE](#)

| | |
|---------------------|---------|
| Value Format | INTEGER |
|---------------------|---------|

| | |
|----------------------|-------------------------------------------------|
| Description | Specifies the security type of SNMPv3. |
| Value Range | 0: noAuthNoPriv 1: AuthNoPriv 2: AuthPriv |
| Default Value | 0 |

SNMP_SECURITY_USER

| | |
|----------------------|-----------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the security user ID for authentication and encryption of SNMPv3. |
| Value Range | Max. 32 characters |
| Default Value | Empty string |

SNMP_AUTH_TYPE

| | |
|----------------------|----------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the authentication type of SNMPv3. |
| Value Range | 0: MD5 1: SHA |
| Default Value | 0 |

SNMP_AUTH_PASSWORD

| | |
|----------------------|--------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the authentication password of SNMPv3. |
| Value Range | 0, 8–64 characters |
| Default Value | Empty string |

SNMP_ENCRYPT_TYPE

| | |
|----------------------|------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the encryption type of SNMPv3. |
| Value Range | 0: DES 1: AES |
| Default Value | 1 |

SNMP_ENCRYPT_PASSWORD

| | |
|----------------------|----------------------------------------------|
| Value Format | STRING |
| Description | Specifies the encryption password of SNMPv3. |
| Value Range | 0, 8–64 characters |
| Default Value | Empty string |

4.18 Multicast Paging Settings

MPAGE_ADDRm

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | IPADDR |
| Description | Specifies the address for multi-cast paging for each channel group. (m=1–5, the channel group) {Priority: 5 > 4 > 3, 2, 1 (depending on the configuration)} |
| Value Range | 224.0.0.0–239.255.255.255 |
| Default Value | Empty string |
| Web User Interface Reference | IPv4 Address (Group 1–5) |

MPAGE_IPV6_ADDRm

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | IPADDR-V6 |
| Description | Specifies the IPv6 address for multi-cast paging for each channel group. (m=1–5, the channel group) {Priority: 5 > 4 > 3, 2, 1 (depending on the configuration)} |
| Value Range | FF00::/8 |
| Default Value | Empty string |
| Web User Interface Reference | IPv6 Address (Group 1–5) |

MPAGE_PORTm

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port number for multi-cast paging for each channel group.(m=1–5, the channel group) |
| Value Range | 0–65535 (0: not used) |
| Default Value | 0 |
| Web User Interface Reference | Port (Group 1–5) |

MPAGE_PRIORITYm

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the priority of the low priority channel group. (m=1–3) The priority of multi-cast paging group1–3 is lower than the talking. Priority 4 is higher than priority 5. |

| | |
|-------------------------------------|-----------------------|
| Value Range | 4,5 (Talk > 4 > 5) |
| Default Value | 5 |
| Web User Interface Reference | Priority (Group 1–3) |

MPAGE_LABELm

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|----------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies a label for each channel group. (m=1–5, the channel group) |
| Value Range | Max. 24 characters |
| Default Value | Empty string |
| Web User Interface Reference | Label (Group 1–5) |

MPAGE_SEND_ENABLEm

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies the sending multi-cast paging. (m=1–5, the channel group) |
| Value Range | <ul style="list-style-type: none"> • y: Enable • N: Disable |
| Default Value | N |
| Web User Interface Reference | Enable Transmission (Group 1–5) |

MPAGE_CODEC

| | |
|----------------------|------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the codec for multi-cast paging. |
| Value Range | 0 : "G722" 1 : "PCMA" 2 : – 3 : "G729A" 4 : "PCMU" 5 : "Opus" |
| Default Value | 0 |

MPAGE_SP_VOL_EMERGENCY (For KX-TPA60/KX-TPA65/KX-TPA70/KX-TPA73)

| | |
|---------------------|-------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the speaker level for new received multi-cast paging (emergency channel). |
| Value Range | 0–6 0: No control |

4.18 Multicast Paging Settings

| | |
|---------------|---|
| Default Value | 0 |
|---------------|---|

MPAGE_SP_VOL_EMERGENCY2 (For KX-TPA68)

| | |
|----------------------|-------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the speaker level for new received multi-cast paging (emergency channel). |
| Value Range | 0–8 0: No control |
| Default Value | 0 |

MPAGE_SP_VOL_PRIORITY (For KX-TPA60/KX-TPA65/KX-TPA70/KX-TPA73)

| | |
|----------------------|------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the speaker level for new received multi-cast paging (priority channel). |
| Value Range | 0–6 0: No control |
| Default Value | 0 |

MPAGE_SP_VOL_PRIORITY2 (For KX-TPA68)

| | |
|----------------------|------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the speaker level for new received multi-cast paging (priority channel). |
| Value Range | 0–8 0: No control |
| Default Value | 0 |

MPAGE_DND_ENABLE_HSy

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies the DND setting (on/off) for multi-cast paging. |
| Value Range | <ul style="list-style-type: none">• y: Enable DND for Multi-cast paging• n: Disable DND for Multi-cast paging |
| Default Value | n |

MPAGE_FUNCKEY_ENABLE

| | |
|---------------------|------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the multicast paging key in function menu. |
| Value Range | <ul style="list-style-type: none">• y: Enable• n: Disable |

| | |
|----------------------|---|
| Default Value | N |
|----------------------|---|

4.19 NTP Settings

[NTP_ADDR](#)

| | |
|-------------------------------------|-------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of NTP server. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |
| Web User Interface Reference | Server Address |

[TIME_SYNC_INTVL](#)

| | |
|----------------------|----------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in seconds, to resynchronize after having detected no reply from the NTP server. |
| Value Range | 10–86400 |
| Default Value | 60 |

[TIME_QUERY_INTVL](#)

| | |
|-------------------------------------|-----------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in seconds, between synchronizations with the NTP server. |
| Value Range | 10–86400 |
| Default Value | 43200 |
| Web User Interface Reference | Synchronization Interval |

4.20 Time Settings

[LOCAL_TIME_ZONE_POSIX](#)

| | |
|---------------------|--------|
| Value Format | STRING |
|---------------------|--------|

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies a IEEE 1003.1 (POSIX)-compliant local time zone definition (e.g., "EST+5 EDT,M4.1.0/2,M10.5.0/2"). |
| Note | <ul style="list-style-type: none"> • If this parameter is specified, the following parameters are disabled, and operation will be based on this parameter. <ul style="list-style-type: none"> – <code>TIME_ZONE</code> – <code>DST_ENABLE</code> – <code>DST_OFFSET</code> – <code>DST_START_MONTH</code> – <code>DST_START_ORDINAL_DAY</code> – <code>DST_START_DAY_OF_WEEK</code> – <code>DST_START_TIME</code> – <code>DST_STOP_MONTH</code> – <code>DST_STOP_ORDINAL_DAY</code> – <code>DST_STOP_DAY_OF_WEEK</code> – <code>DST_STOP_TIME</code> |
| Value Range | Max. 70 characters |
| Default Value | Empty string |

TIME_ZONE

| | |
|---------------------|-------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the offset of local standard time from UTC (GMT), in minutes. |

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | -720–780 |
| Note | <ul style="list-style-type: none"> Only the following values are available: -720 (GMT -12:00), -660 (GMT -11:00), -600 (GMT -10:00), -540 (GMT -09:00), -480 (GMT -08:00), -420 (GMT -07:00), -360 (GMT -06:00), -300 (GMT -05:00), -240 (GMT -04:00), -210 (GMT -03:30), -180 (GMT -03:00), -120 (GMT -02:00), -60 (GMT -01:00), 0 (GMT), 60 (GMT +01:00), 120 (GMT +02:00), 180 (GMT +03:00), 210 (GMT +03:30), 240 (GMT +04:00), 270 (GMT +04:30), 300 (GMT +05:00), 330 (GMT +05:30), 345 (GMT +05:45), 360 (GMT +06:00), 390 (GMT +06:30), 420 (GMT +07:00), 480 (GMT +08:00), 540 (GMT +09:00), 570 (GMT +09:30), 600 (GMT +10:00), 660 (GMT +11:00), 720 (GMT +12:00), 780 (GMT +13:00) If your location is west of Greenwich (0 [GMT]), the value should be minus. For example, the value for New York City, U.S.A. is "-300" (Eastern Standard Time being 5 hours behind GMT). This parameter is disabled when the "<u>LOCAL_TIME_ZONE_POSIX</u>" parameter is specified. |
| Default Value | 0 |
| Web User Interface Reference | Time Zone |

DST_ENABLE

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable DST (Summer Time). |
| Note | <ul style="list-style-type: none"> This parameter is disabled when the "<u>LOCAL_TIME_ZONE_POSIX</u>" parameter is specified. |
| Value Range | <ul style="list-style-type: none"> Y (Enable DST [Summer Time]) N (Disable DST [Summer Time]) |
| Default Value | N |
| Web User Interface Reference | Enable DST (Enable Summer Time) |

DST_OFFSET

| | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the amount of time, in minutes, to change the time when " <u>DST_ENABLE</u> " is set to " Y ". |
| Note | <ul style="list-style-type: none"> This parameter is disabled when the "<u>LOCAL_TIME_ZONE_POSIX</u>" parameter is specified. |

| | |
|-------------------------------------|------------------------------------------------------------------------------------------|
| Value Range | 0–720 |
| Note | <ul style="list-style-type: none"> This parameter is usually set to "60". |
| Default Value | 60 |
| Web User Interface Reference | DST Offset (Summer Time Offset) |

DST_START_MONTH

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the month in which DST (Summer Time) starts. |
| Note | <ul style="list-style-type: none"> This parameter is disabled when the "<code>LOCAL_TIME_ZONE_POSIX</code>" parameter is specified. |
| Value Range | 1–12 |
| Default Value | 3 |
| Web User Interface Reference | Month |

DST_START_ORDINAL_DAY

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the number of the week on which DST (Summer Time) starts. The actual start day is specified in " <code>DST_START_DAY_OF_WEEK</code> ". For example, to specify the second Sunday, specify "2" in this parameter, and "0" in the next parameter. |
| Note | <ul style="list-style-type: none"> This parameter is disabled when the "<code>LOCAL_TIME_ZONE_POSIX</code>" parameter is specified. |
| Value Range | 1–5 – 1: the first week of the month – 2: the second week of the month – 3: the third week of the month – 4: the fourth week of the month – 5: the last week of the month |
| Default Value | 2 |
| Web User Interface Reference | Day of Week |

DST_START_DAY_OF_WEEK

| | |
|---------------------|---------|
| Value Format | INTEGER |
|---------------------|---------|

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the day of the week on which DST (Summer Time) starts. |
| Note | <ul style="list-style-type: none"> This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified. |
| Value Range | 0–6 <ul style="list-style-type: none"> 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday |
| Default Value | 0 |
| Web User Interface Reference | Day of Week |

DST_START_TIME

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the start time of DST (Summer Time) in minutes after 12:00 AM. |
| Note | <ul style="list-style-type: none"> This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified. |
| Value Range | 0–1439 |
| Default Value | 120 |
| Web User Interface Reference | Time |

DST_STOP_MONTH

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the month in which DST (Summer Time) ends. |
| Note | <ul style="list-style-type: none"> This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified. |
| Value Range | 1–12 |
| Default Value | 11 |
| Web User Interface Reference | Month |

DST_STOP_ORDINAL_DAY

| | |
|---------------------|---------|
| Value Format | INTEGER |
|---------------------|---------|

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the number of the week on which DST (Summer Time) ends. The actual end day is specified in "DST_STOP_DAY_OF_WEEK". For example, to specify the second Sunday, specify "2" in this parameter, and "0" in the next parameter. |
| Note | <ul style="list-style-type: none"> This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified. |
| Value Range | <p>1–5</p> <ul style="list-style-type: none"> 1: the first week of the month 2: the second week of the month 3: the third week of the month 4: the fourth week of the month 5: the last week of the month |
| Default Value | 1 |
| Web User Interface Reference | Day of Week |

DST_STOP_DAY_OF_WEEK

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the day of the week on which DST (Summer Time) ends. |
| Note | <ul style="list-style-type: none"> This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified. |
| Value Range | <p>0–6</p> <ul style="list-style-type: none"> 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday |
| Default Value | 0 |
| Web User Interface Reference | Day of Week |

DST_STOP_TIME

| | |
|---------------------|---------|
| Value Format | INTEGER |
|---------------------|---------|

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the end time of DST (Summer Time) in minutes after 12:00 AM. |
| Note | <ul style="list-style-type: none"> This parameter is disabled when the "<u>LOCAL_TIME_ZONE_POSIX</u>" parameter is specified. |
| Value Range | 0–1439 |
| Default Value | 120 |
| Web User Interface Reference | Time |

4.21 Network Phonebook (Common)

ONLY_NPB_ENABLE

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to be available the handset phonebook when the network phonebook is enabled (Except KX-TPA70/KX-TPA73). |
| Value Range | <ul style="list-style-type: none"> Y: Not use handset phonebook N: Use handset phonebook |
| Default Value | N |

NETWORK_SEARCH_ENABLE

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to perform the phonebook search at the time of the receiving the incoming or the searching the received log. |
| Value Range | <ul style="list-style-type: none"> Y: Enable phonebook search N: Disable |
| Default Value | N |

NW_PHONEBOOK_ADVANCED_SERACH

| | |
|----------------------|-----------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to perform a narrowing search with the LDAP phonebook. |
| Value Range | <ul style="list-style-type: none"> Y: Enable N: Disable |
| Default Value | Y |

PHONE_BOOK_MENUx_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|--------|
| Value Format | STRING |
|---------------------|--------|

4.22 Language Settings

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | x=1-4, y=1-16 Specifies the type of phonebook used by the handset. |
| Value Range | X_LOCAL_PHONEBOOK, X_BROADSOFT_PHONEBOOK1, X_BROADSOFT_PHONEBOOK2, X_BROADSOFT_PHONEBOOK3, X_BROADSOFT_PHONEBOOK4, X_BROADSOFT_PHONEBOOK5, X_BROADSOFT_PHONEBOOK6, X_BROADSOFT_PHONEBOOK7, X_BROADSOFT_PHONEBOOK8, X_BROADSOFT_PHONEBOOK9, X_BROADSOFT_PHONEBOOK10, X_BROADSOFT_PHONEBOOK11, X_BROADSOFT_PHONEBOOK12, X_BROADSOFT_PHONEBOOK13, X_BROADSOFT_PHONEBOOK14, X_BROADSOFT_PHONEBOOK15, X_BROADSOFT_PHONEBOOK16, X_LDAP_PHONEBOOK1, X_LDAP_PHONEBOOK2, X_LDAP_PHONEBOOK3, X_LDAP_PHONEBOOK4, X_LDAP_PHONEBOOK5, X_LDAP_PHONEBOOK6, X_LDAP_PHONEBOOK7, X_LDAP_PHONEBOOK8, X_LDAP_PHONEBOOK9, X_LDAP_PHONEBOOK10, X_LDAP_PHONEBOOK11, X_LDAP_PHONEBOOK12, X_LDAP_PHONEBOOK13, X_LDAP_PHONEBOOK14, X_LDAP_PHONEBOOK15, X_LDAP_PHONEBOOK16, X_XML_LDAP_PHONEBOOK, X_XML_PHONEBOOK, X_NONE |
| Default Value | PHONE_BOOK_MENU1_HSy: X_LOCAL_PHONEBOOK PHONE_BOOK_MENU2_HSy: X_NONE PHONE_BOOK_MENU3_HSy: X_NONE PHONE_BOOK_MENU4_HSy: X_NONE |

PHONE_BOOK_MENUx_LABEL_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|---------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1-4, y=1-16 Specifies the phonebook label used by the handset. |
| Value Range | Max. 24 characters |
| Default Value | Empty string |

4.22 Language Settings

AVAILABLE_LANGUAGE_HS

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the selectable language on the handset. |
| Value Range | en, es, fr, de, it, da, nl, sv, fi, el, hu, pt, pl, sk, cs, sh, ru, uk, tr, no, ro, ct, kk, me → see 3.4.2.1 Selectable Language |
| Web User Interface Reference | Handset |

DEFAULT_LANGUAGE_HS_y

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the default language on the handset. |
| Value Range | en, es, fr, de, it, da, nl, sv, fi, el, hu, pt, pl, sk, cs, sh, ru, uk, tr, no, ro, ct, kk, me → see 3.4.2.1 Selectable Language |
| Default Value | en |
| Web User Interface Reference | Language |

HS_LANGUAGE_PATH_x

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI of the language file for KX-TPA60/KX-TPA65/ KX-TPA68/KX-UDT121/KX-UDT131. x=1–10 |
| Value Range | Max. 384 characters |
| Note | <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |

Default Value

Empty string

HS_LANGUAGE_VER_x

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the version of the language file for KX-TPA60/ KX-TPA65/KX-TPA68/KX-UDT121/KX-UDT131. x=1–10 |
| Value Range | "00.000.000"–"15.999.999" |
| Default Value | Empty string |

HS_LANGUAGE_UX1_PATH_x (For KX-TPA70/KX-TPA73)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|-------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI of the language file for KX-TPA70/KX-TPA73. x=1–10 |

4.22 Language Settings

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|
| Value Range | Max. 384 characters |
| Note | |
| | <ul style="list-style-type: none">For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

HS_LANGUAGE_UX1_VERx (For KX-TPA70/KX-TPA73)

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | STRING |
| Description | Specifies the version of the language file for KX-TPA70/KX-TPA73. x=1–10 |
| Value Range | "00.000.000"–"15.999.999" |
| Default Value | Empty string |

AVAILABLE_LANGUAGE_WEB

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the selectable language on the Web. |
| Value Range | en, es, fr, de, it, nl, el, hu, pt, pl, sk, cs, sh, ru, uk, tr, ro, ct, kk, me → see 3.4.2.1 Selectable Language |
| Web User Interface Reference | Web |

WEB_LANGUAGE

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the default language on the handset. |
| Value Range | en, es, fr, de, it, nl, el, hu, pt, pl, sk, cs, sh, ru, uk, tr, ro, ct, kk, me → see 3.4.2.1 Selectable Language |
| Default Value | en |
| Web User Interface Reference | Web Language |

WEB_LANGUAGE_PATHx

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | STRING |
| Description | Specifies the URI of the language file. x=1–10 |
| Value Range | Max. 384 characters |

Note

- For details about the formats, see **2.1.3 Server Address Formats**.

| | |
|----------------------|--------------|
| Default Value | Empty string |
|----------------------|--------------|

WEB_LANGUAGE_VERx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the version of the language file. x=1–10 |
| Value Range | "00.000.000"–"15.999.999" |
| Default Value | Empty string |

4.23 NAT Settings

STUN_SERV_ADDR

| | |
|-------------------------------------|--------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of the primary STUN server. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |
| Web User Interface Reference | Server Address |

STUN_SERV_PORT

| | |
|-------------------------------------|------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port of the primary STUN server. |
| Value Range | 1–65535 |
| Default Value | 3478 |
| Web User Interface Reference | Port |

STUN_2NDSERV_ADDR

| | |
|----------------------|----------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of the secondary STUN server. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |

STUN_2NDSERV_PORT

| | |
|----------------------|---------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port number of the secondary STUN server. |
| Value Range | 1–65535 |
| Default Value | 3478 |

4.23 NAT Settings

STUN_INTVL

| | |
|-------------------------------------|--------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval of the sending binding request. |
| Value Range | 60–86400 |
| Default Value | 300 |
| Web User Interface Reference | Binding Interval |

SIP_ADD_RPORT

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to add the 'rport' parameter to the top Via header field value of requests generated. |
| Value Range | <ul style="list-style-type: none">• x: Enable Rport• n: Disable |
| Default Value | n |
| Web User Interface Reference | Enable Rport (RFC 3581) |

PORT_PUNCH_INTVL

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in seconds, between transmissions of the Keep Alive packet in order to maintain the NAT binding information for SIP packet. |
| Value Range | 0, 10–300 0: Disable |
| Default Value | 0 |
| Web User Interface Reference | Enable Port Punching for SIP |

RTP_PORT_PUNCH_INTVL

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in seconds, between transmissions of the Keep Alive packet in order to maintain the NAT binding information for RTP packet. |
| Value Range | 0, 10–300 0: Disable |
| Default Value | 0 |
| Web User Interface Reference | Enable Port Punching for RTP |

EXTERNAL_RTP_PORTx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|---------|
| Value Format | INTEGER |
|---------------------|---------|

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------|
| Description | x=1–24 Specifies the port number of the router in Static NAT status. |
| Value Range | <ul style="list-style-type: none"> • 0, 1024–59998 (only even ports) • 0: Disable |
| Default Value | 0 |

4.24 SIP Settings

SIP_USER_AGENT

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the text string to send as the user agent in the headers of SIP messages. |
| Value Range | Max. 64 characters Note <ul style="list-style-type: none"> • If "{mac}" is included in this parameter, it will be replaced with the unit's MAC address in lower-case. • If "{MAC}" is included in this parameter, it will be replaced with the unit's MAC address in upper-case. • If "{MODEL}" is included in this parameter, it will be replaced with the unit's model name. • If "{fwver}" is included in this parameter, it will be replaced with the firmware version of the unit. • If "{sipver}" is included in this parameter, it will be replaced with the SIP software version of the unit. |
| Default Value | Panasonic-{MODEL}/{fwver} ({mac}) |
| Web User Interface Reference | User Agent |

PHONE_NUMBER_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the phone number to use as the user ID required for registration to the SIP registrar server. |
| Value Range | Max. 32 characters Note <ul style="list-style-type: none"> • When registering using a user ID that is not a phone number, you should use the "SIP_URI_n" setting. |
| Default Value | Empty string |
| Web User Interface Reference | Phone Number |

SIP_URI_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the unique ID used by the SIP registrar server, which consists of "sip:", a user part, the "@" symbol, and a host part, for example, "sip:user@example.com", "2405551111_1". |
| | <p>Note</p> <ul style="list-style-type: none"> When registering using a user ID that is not a phone number, you should use this setting. In a SIP URI, the user part ("user" in the example above) can contain up to 63 characters, and the host part ("example.com" in the example above) can contain up to 127 characters. |
| Value Range | Max. 384 characters |
| Default Value | Empty string |
| Web User Interface Reference | SIP URI |

SIP_RGSTR_ADDR_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|---------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of the SIP registrar server. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |
| Web User Interface Reference | Registrar Server Address |

SIP_RGSTR_PORT_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port number to use for communication with the SIP registrar server. |
| Value Range | 1–65535 |
| Default Value | 5060 |
| Web User Interface Reference | Registrar Server Port |

SIP_PRXY_ADDR_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|-----------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of the SIP proxy server. |

| | |
|-------------------------------------|----------------------|
| Value Range | Max. 256 characters |
| Default Value | Empty string |
| Web User Interface Reference | Proxy Server Address |

SIP_PRXY_PORT_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port number to use for communication with the SIP proxy server. |
| Value Range | 1–65535 |
| Default Value | 5060 |
| Web User Interface Reference | Proxy Server Port |

SIP_PRSNC_ADDR_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|--------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of the SIP presence server. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |
| Web User Interface Reference | Presence Server Address |

SIP_PRSNC_PORT_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|----------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port number to use for communication with the SIP presence server. |
| Value Range | 1–65535 |
| Default Value | 5060 |
| Web User Interface Reference | Presence Server Port |

SIP_OUTPROXY_ADDR_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|--------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of the SIP outbound proxy server. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |

4.24 SIP Settings

| | |
|------------------------------|-------------------------------|
| Web User Interface Reference | Outbound Proxy Server Address |
|------------------------------|-------------------------------|

SIP_OUTPROXY_PORT_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|----------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port number to use for communication with the SIP outbound proxy server. |
| Value Range | 1–65535 |
| Default Value | 5060 |
| Web User Interface Reference | Outbound Proxy Server Port |

SIP_SVCDOMAIN_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the domain name provided by your phone system dealer/service provider. The domain name is the part of the SIP URI that comes after the "@" symbol. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |
| Web User Interface Reference | Service Domain |

SIP_AUTHID_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|--------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the authentication ID required to access the SIP server. |
| Value Range | Max. 128 characters (except ", &, ', :, <, >, and space) |
| Default Value | Empty string |
| Web User Interface Reference | Authentication ID |

SIP_PASS_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|----------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the authentication password used to access the SIP server. |
| Value Range | Max. 128 characters (except ", &, ', :, <, >, and space) |
| Default Value | Empty string |
| Web User Interface Reference | Authentication Password |

SIP_SRC_PORT_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the source port number used by the unit for SIP communication. |
| Value Range | 1024–49151 |
| | <p>Note</p> <ul style="list-style-type: none"> The SIP port number for each line must be unique. If "Enable SIP Trunk Service" is set to "Yes" or "SIP_TRUNK_MODE_ENABLE" is set to "Y", the settings for "SIP_SRC_PORT_2" to "SIP_SRC_PORT_16" are disabled. The settings will be the same as "SIP_SRC_PORT_1". |
| Default Value | <pre>SIP_SRC_PORT_1="5060" SIP_SRC_PORT_2="5070" SIP_SRC_PORT_3="5080" SIP_SRC_PORT_4="5090" SIP_SRC_PORT_5="5100" SIP_SRC_PORT_6="5110" SIP_SRC_PORT_7="5120" SIP_SRC_PORT_8="5130" SIP_SRC_PORT_9="5140" SIP_SRC_PORT_10="5150" SIP_SRC_PORT_11="5160" SIP_SRC_PORT_12="5170" SIP_SRC_PORT_13="5180" SIP_SRC_PORT_14="5190" SIP_SRC_PORT_15="5200" SIP_SRC_PORT_16="5210"</pre> |
| Web User Interface Reference | Local SIP Port |

DSCP_SIP_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|--------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the DSCP level of DiffServ applied to SIP packets. |
| Value Range | 0–63 |
| Default Value | 0 |
| Web User Interface Reference | SIP Packet QoS (DSCP) |

SIP_DNSSRV_ENA_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|---------|
| Value Format | BOOLEAN |
|---------------------|---------|

4.24 SIP Settings

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to request the DNS server to translate domain names into IP addresses using the SRV record. |
| Value Range | <ul style="list-style-type: none">• Y: Enable DNS SRV lookup• N: Disable DNS SRV lookup |
| Note | <ul style="list-style-type: none">• If set to "Y", the unit will perform a DNS SRV lookup for a SIP registrar server, SIP proxy server, SIP outbound proxy server, or SIP presence server.• If set to "N", the unit will not perform a DNS SRV lookup for a SIP registrar server, SIP proxy server, SIP outbound proxy server, or SIP presence server. |
| Default Value | Y |
| Web User Interface Reference | Enable DNS SRV lookup |

SIP_UDP_SRV_PREFIX_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies a prefix to add to the domain name when performing a DNS SRV lookup using UDP. |
| Note | <ul style="list-style-type: none">• This setting is available only when "SIP_DNSSRV_ENA_n" is set to "Y". |
| Value Range | Max. 32 characters |
| Default Value | _sip._udp. |
| Web User Interface Reference | SRV lookup Prefix for UDP |

SIP_TCP_SRV_PREFIX_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies a prefix to add to the domain name when performing a DNS SRV lookup using TCP. |
| Note | <ul style="list-style-type: none">• This setting is available only when "SIP_DNSSRV_ENA_n" is set to "Y". |
| Value Range | Max. 32 characters |
| Default Value | _sip._tcp. |
| Web User Interface Reference | SRV lookup Prefix for TCP |

REG_EXPIRE_TIME_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the length of time, in seconds, that the registration remains valid. This value is set in the "Expires" header of the REGISTER request. |
| Value Range | 1–4294967295 |
| Default Value | 3600 |
| Web User Interface Reference | REGISTER Expires Timer |

REG_INTERVAL_RATE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the percentage of the "expires" value after which to refresh registration by sending a new REGISTER message in the same dialog. |
| Value Range | 1–100 |
| Default Value | 50 |

REG_RTX_INVL_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in seconds, between transmissions of the REGISTER request when a registration results in failure (server no reply or error reply). |
| Value Range | 1–86400 |
| Default Value | 10 |

USE_DEL_REG_OPEN_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable cancelation before registration when, for example, the unit is turned on. |
| Value Range | <ul style="list-style-type: none"> • y: Send un-REGISTER • n: Does not send |
| Default Value | n |

USE_DEL_REG_CLOSE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the cancelation of registration before the SIP function shuts down when, for example, the configuration has changed. |
| Value Range | <ul style="list-style-type: none"> • y: Send un-REGISTER • n: Does not send |
| Default Value | N |

SIP_SESSION_TIME_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the length of time, in seconds, that the unit waits before terminating SIP sessions when no reply to repeated requests is received. For details, refer to RFC 4028. |
| Value Range | 0, 60–65535 (0: Disable) |
| Default Value | 0 |
| Web User Interface Reference | Enable Session Timer (RFC 4028) |

SIP_SESSION_METHOD_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the refreshing method of SIP sessions. |
| Value Range | <ul style="list-style-type: none"> – 0: reINVITE – 1: UPDATE – 2: AUTO |
| Default Value | 0 |
| Web User Interface Reference | Session Timer Method |

SIP_TIMER_T1_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the default interval, in milliseconds, between transmissions of SIP messages. For details, refer to RFC 3261. |

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • 250 • 500 • 1000 • 2000 • 4000 |
| Default Value | 500 |
| Web User Interface Reference | T1 Timer |

SIP_TIMER_T2_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the maximum interval, in seconds, between transmissions of SIP messages. For details, refer to RFC 3261. |
| Value Range | <ul style="list-style-type: none"> • 2 • 4 • 8 • 16 • 32 |
| Default Value | 4 |
| Web User Interface Reference | T2 Timer |

SIP_TIMER_T4_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the maximum period, in seconds, that a message can remain on the network. |
| Value Range | <ul style="list-style-type: none"> • 0 • 1 • 2 • 3 • 4 • 5 |
| Default Value | 5 |

SIP_TIMER_B_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|---------|
| Value Format | INTEGER |
|---------------------|---------|

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the value of SIP timer B (INVITE transaction timeout timer), in milliseconds. For details, refer to RFC 3261. |
| Value Range | 250–64000 |
| Default Value | 32000 |

SIP_TIMER_D_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies the value of SIP timer D (wait time for answer resending), in milliseconds. For details, refer to RFC 3261. |
| Value Range | 0, 250–64000 |
| Default Value | 5000 |

SIP_TIMER_F_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies the value of SIP timer F (non-INVITE transaction timeout timer), in milliseconds. For details, refer to RFC 3261. |
| Value Range | 250–64000 |
| Default Value | 32000 |

SIP_TIMER_H_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies the value of SIP timer H (wait time for ACK reception), in milliseconds. For details, refer to RFC 3261. |
| Value Range | 250–64000 |
| Default Value | 32000 |

SIP_TIMER_J_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies the value of SIP timer J (wait time for non-INVITE request resending), in milliseconds. For details, refer to RFC 3261. |
| Value Range | 0, 250–64000 |
| Default Value | 5000 |

SIP_100REL_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to add the option tag 100rel to the "Supported" header of the INVITE message. For details, refer to RFC 3262. |
| Value Range | <ul style="list-style-type: none"> • y: Enable 100rel function • n: Disable 100rel function <p>Note</p> <ul style="list-style-type: none"> • If set to "y", the Reliability of Provisional Responses function will be enabled. The option tag 100rel will be added to the "Supported" header of the INVITE message and to the "Require" header of the "1xx" provisional message. • If set to "n", the option tag 100rel will not be used. |
| Default Value | y |
| Web User Interface Reference | Enable 100rel (RFC 3262) |

SIP_18X_RTX_INTVL_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the retransmission interval, in seconds, for "18x" responses. |
| Value Range | 0, 1–600 (0: Disable) |
| Default Value | 0 |

SIP_SUBS_EXPIRE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the length of time, in seconds, that the subscription remains valid. This value is set in the "Expires" header of the SUBSCRIBE request. |
| Value Range | 1–4294967295 |
| Default Value | 3600 |

SUB_INTERVAL_RATE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|---------|
| Value Format | INTEGER |
|---------------------|---------|

4.24 SIP Settings

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the percentage of the "expires" value after which to refresh subscriptions by sending a new SUBSCRIBE message in the same dialog. |
| Value Range | 1–100 |
| Default Value | 50 |

SUB_RTX_INTVL_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in seconds, between transmissions of SUBSCRIBE requests when a subscription results in failure (server no reply or error reply). |
| Value Range | 1–86400 |
| Default Value | 10 |

SIP_P_PREFERRED_ID_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to add the "P-Preferred-Identity" header to SIP messages. |
| Value Range | <ul style="list-style-type: none">• y: Add the "P-Preferred-Identity" header• n: Do not add the "P-Preferred-Identity" header |
| Default Value | N |

SIP_PRIVACY_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to add the "Privacy" header to SIP messages. |
| Value Range | <ul style="list-style-type: none">• y: Add the "Privacy" header• n: Do not add the "Privacy" header |
| Default Value | N |

ADD_USER_PHONE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|-----------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to add "user=phone" to the SIP URI in SIP messages. |

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • y: Add "user=phone" • n: Do not add "user=phone" |
| Note | <ul style="list-style-type: none"> • SIP URI example: <ul style="list-style-type: none"> – <code>"sip:1111@tokyo.example.com;user=phone"</code>, when set to "Y" – <code>"sip:1111@tokyo.example.com"</code>, when set to "N" |
| Default Value | N |

SIP_ANM_DISPNAME_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the text string to set as the display name in the "From" header when making anonymous calls. |
| Value Range | <ul style="list-style-type: none"> • 0: Use normal display name • 1: Use "Anonymous" for display name • 2: Do not send a display name |
| Default Value | 1 |

SIP_ANM_USERNAME_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the text string to set as the user name in the "From" header when making anonymous calls. |
| Value Range | <ul style="list-style-type: none"> • 0: Use normal user name • 1: Use "anonymous" for user name • 2: Do not send a user name |
| Default Value | 0 |

SIP_ANM_HOSTNAME_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to set an anonymous host name in the "From" header when making anonymous calls. |
| Value Range | <ul style="list-style-type: none"> • y: Use "anonymous.invalid" for host name • n: Use normal host name |
| Default Value | N |

SIP_DETECT_SSAF_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable SSAF for the SIP servers (registrar server, proxy server, and presence server). |
| Value Range | <ul style="list-style-type: none"> • y: Enable SSAF • n: Disable SSAF <p>Note</p> <ul style="list-style-type: none"> • If set to "y", the unit receives SIP messages only from the source addresses stored in the SIP servers (registrar server, proxy server, and presence server), and not from other addresses. However, if "SIP_OUTPROXY_ADDR_n" in 4.24 SIP Settings is specified, the unit also receives SIP messages from the source address stored in the SIP outbound proxy server. |
| Default Value | y |
| Web User Interface Reference | Enable SSAF (SIP Source Address Filter) |

SIP_RCV_DET_HEADER_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to check the user name part of the SIP URI in the "To" header when receiving the INVITE message with an incorrect target SIP URI. |
| Value Range | <ul style="list-style-type: none"> • y: Enable username check • n: Disable username check <p>Note</p> <ul style="list-style-type: none"> • If set to "y", the unit will return an error reply when it receives the INVITE message with an incorrect target SIP URI. • If set to "n", the unit will not check the user name part of the SIP URI in the "To" header. |
| Default Value | n |

SIP_RCV_DET_REQURI_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to check ReqURI that is the part of SIP URI in "To" header when INVITE with wrong target SIP URI is received. |

| | |
|----------------------|----------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • Y • N |
| Default Value | N |

SIP_CONTACT_ON_ACK_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to add the "Contact" header to SIP ACK message. |
| Value Range | <ul style="list-style-type: none"> • Y: Add the "Contact" header • N: Do not add the "Contact" header |
| Default Value | N |

VOICE_MESSAGE_AVAILABLE

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies how the existence of voice messages is determined when a "Messages-Waiting: yes" message is received. |
| Value Range | <ul style="list-style-type: none"> • Y: Determines that voice messages exist when "Messages-Waiting: yes" is received with a "Voice-Message" line included. • N: Determines that voice messages exist when "Messages-Waiting: yes" is received even without a "Voice-Message" line included. |
| Default Value | Y |

SIP_INVITE_EXPIRE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|----------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the period, in seconds, in which the INVITE message will expire. |
| Value Range | 0, 60–65535 (0: Disable) |
| Default Value | 0 |

SIP_FOVR_NORSP_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to perform the fail-over process when the unit detects that the SIP server is not replying to SIP message. |

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> y: Enable fail-over n: Disable fail-over <p>Note</p> <ul style="list-style-type: none"> If set to "y", the unit will try to use the other SIP servers via the DNS SRV and A records. If set to "n", the unit will not try to use the other SIP servers. |
| Default Value | y |

SIP_FOVR_MAX_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the maximum number of servers (including the first [normal] server) used in the fail-over process. |
| Value Range | 1–6 |
| Default Value | 4 |

SIP_FOVR_MODE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether INVITE/SUBSCRIBE will also follow the REGISTER Failover result. |
| Value Range | <ul style="list-style-type: none"> y: INVITE/SUBSCRIBE will follow the REGISTER Failover result. n: INVITE/SUBSCRIBE will not follow the REGISTER Failover result. |
| Default Value | y |

SIP_FOVR_DURATION_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the number of transmission times for the REGISTER method at the Failover destination. |
| Value Range | 0–255 |
| Default Value | 0 |

SIP_ADD_ROUTE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|---------|
| Value Format | BOOLEAN |
|---------------------|---------|

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether or not to add Route headers when setting OutBoundProxy. |
| Note | <ul style="list-style-type: none"> Route headers are not added when OutBoundProxy and other server settings are the same. |
| Value Range | <ul style="list-style-type: none"> Y: Route headers are added N: Route headers are not added |
| Default Value | Y |

SIP_REQURI_PORT_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies whether to add the port parameter to the Request-Line in the initial SIP request. |
| Value Range | <ul style="list-style-type: none"> Y: Add the port parameter N: Do not add the port parameter |
| Note | <ul style="list-style-type: none"> Request URI in REGISTER example: <ul style="list-style-type: none"> If set to "Y", the port parameter is added to the Request-Line, as follows: Request-Line: REGISTER sip:192.168.0.10:5060 SIP/2.0 If set to "N", the port parameter is not added to the Request-Line, as follows: Request-Line: REGISTER sip:192.168.0.10 SIP/2.0 |
| Default Value | Y |

ADD_EXPIRES_HEADER_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies whether to add an "Expires" header to REGISTER (adds an "expires" parameter to the "Contact" header). |
| Value Range | <ul style="list-style-type: none"> Y: Add Expires Header N: Do not add Expires Header |
| Default Value | N |

ADD_TRANSPORT_UDP_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to add the attribute "transport=udp" to the SIP header URI. |
| Value Range | <ul style="list-style-type: none"> • y: Add Transport UDP • n: Do not add Transport UDP |
| Default Value | n |

SIP_ADD_DIVERSION_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to add Diversion header information. |
| Value Range | 0–2 – 0: Do not add Diversion header information – 1: Use own diversion information only for the Diversion header – 2: Add diversion information to existing Diversion header |
| Default Value | 0 |

TRANSFER_RECALL_TIM

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the time, in seconds, in which a transferred call will recall when the SIP sever does not reply to SIP REFER message. |
| Value Range | 0, 1–240 |
| Default Value | 0 |

SIGNAL_COMPRESSION_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to use signal compression. When using signal compression, select Required or Supported. |
| Value Range | <ul style="list-style-type: none"> • 0: Disable • 1: Enable (Required) • 2: Enable (Supported) |
| Default Value | 0 |

MAX_BREADTH_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|-------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the Max Breadth that is max Folk number at Proxy. |

| | |
|----------------------|--------------------------------------|
| Value Range | 0–99 (0: Not add max-breadth header) |
| Default Value | 60 |

RINGTON_183_180_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to ring the local ringback tone when 180 is received after receiving 183 Early media. |
| Value Range | <ul style="list-style-type: none"> • y: Performs ringback tone after early media • n: Does not perform |
| Default Value | n |

SIP_403_REG_SUB_RTX_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether or not to send a request when a 403 Forbidden reply is received from the server in response to a REGISTER or SUBSCRIBE. |
| Value Range | <ul style="list-style-type: none"> • y: Send • n: Do not send |
| Default Value | n |

SIP_FORK_MODE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to use SIP Fork. |
| Value Range | <ul style="list-style-type: none"> • y: Use SIP Fork • n: Not use SIP Fork |
| Default Value | n |

RFC2543_HOLD_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|--------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the RFC 2543 Call Hold feature on this line. |

4.24 SIP Settings

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• y: Enable RFC 2543 Call Hold• n: Disable RFC 2543 Call Hold |
| Note | <ul style="list-style-type: none">• If set to "y", the "c=0.0.0.0" syntax will be set in SDP when sending a re-INVITE message to hold the call.• If set to "n", the "c=x.x.x.x" syntax will be set in SDP. |
| Default Value | y |
| Web User Interface Reference | Enable c=0.0.0.0 Hold (RFC 2543) |

SIP_HOLD_ATTRIBUTE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|--------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to set "a=inactive" or not when the call is on hold. |
| Value Range | <ul style="list-style-type: none">• 0: send only• 1: inactive |
| Default Value | 0 |

SDP_USER_ID_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-----------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the user ID used in the "o=" line field of SDP. |
| Value Range | Max. 32 characters |
| Default Value | Empty string |

TELEVNT_PAYLOAD

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the RFC 2833 payload type for DTMF tones. |
| Note | <ul style="list-style-type: none">• This setting is available only when "DTMF_METHOD_n" is set to "0". |
| Value Range | 96–127 |
| Default Value | 101 |
| Web User Interface Reference | Telephone-event Payload Type |

HOLD_SOUND_PATH_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | <p>Specifies whether the unit's hold tone or the network server's hold tone (Music on hold) is played when a party is put on hold.</p> <p>Note</p> <ul style="list-style-type: none"> It is necessary to set the following parameters to play the unit's hold tone. <ul style="list-style-type: none"> — HOLD_TONE_FRQ — HOLD_TONE_GAIN |
| Value Range | <p>0–1</p> <ul style="list-style-type: none"> — 0: The unit's hold tone is played. — 1: The network server's hold tone (Music on hold) is played. |
| Default Value | 0 |

KEEP_EARLYMEDIA_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to continue Early Media call or not when 18x without SDP is received after Early Media connection is established while making a call. |
| Value Range | <ul style="list-style-type: none"> • y: Continues • n: Does not continue (Switch to ringback tone) |
| Default Value | N |

RFC3327_SUPPORT_PATH

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to add "supported: path" to support Path header. |
| Value Range | <ul style="list-style-type: none"> • y: Adds supported: path • n: Does not add |
| Default Value | Y |

RFC6947_DRAFT08_ALTC

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to support RFC6947 draft08 when the attvalue is not attached after altc. |
| Value Range | <ul style="list-style-type: none"> • y: Performs ALTC by Draft08 • n: Performs ALTC by RFC6947 |
| Default Value | Y |

ESCAPECODE_CONVERSION

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to convert "#" code to "%23". |
| Value Range | <ul style="list-style-type: none"> • Y: Convert "#" code to "%23" • N: Does not convert |
| Default Value | Y |

SIP_REPLACE_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to use "Replaces" Header. |
| Value Range | <ul style="list-style-type: none"> • Y: Use "Replaces" Header • N: Do not use "Replaces" Header |
| Default Value | Y |

SEND_180_ALERT_ENABLE

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to send 180 before an alert. |
| Value Range | <ul style="list-style-type: none"> • Y: Send 180 • N: Do not send 180 |
| Default Value | Y |

SIP_INC_INVITE_RTP_MODE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to send RTP after receiving a second INVITE. |
| Value Range | <ul style="list-style-type: none"> • 0: Start receiving RTP after receiving a second INVITE • 1: Start sending/receiving RTP after receiving a second INVITE |
| Default Value | 0 |

SIP_183_TALK_ENABLE

| | |
|----------------------|----------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the unit's state is "Talking" or "Calling" when it receives a SIP 183 message. |
| Value Range | <ul style="list-style-type: none"> • Y: Talking • N: Calling |
| Default Value | N |

SIP_DNSSRV_ENA_NAPTR_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the use of the NAPTR sequence. |
| Value Range | <ul style="list-style-type: none"> • y: Enable • n: Disable <p>Note</p> <ul style="list-style-type: none"> • If this setting is set to "Y", match the protocol of NAPTR with the setting for "Transport Protocol" or "SIP_TRANSPORT_n". |
| Default Value | n |

SIP_REFRESHER_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to add the refresher parameter for Session Expire in SIP INVITE. |
| Value Range | <ul style="list-style-type: none"> – 0: Do not add the refresher parameter – 1: Add the refresher parameter with the value "UAS" – 2: Add the refresher parameter with the value "UAC" |
| Default Value | 0 |

ENH_FOVR_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable Enhanced Failover mode. |
| Value Range | <ul style="list-style-type: none"> • y: Enable • n: Disable |
| Default Value | y |

ENH_FOVR_RANDOM_TIMER_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|---------|
| Value Format | BOOLEAN |
|---------------------|---------|

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether the retry timer is a fixed value or a random value when the unit re-sends a REGISTER request when a failover failure has occurred. |
| Note | <ul style="list-style-type: none"> • This setting is available only when "ENH_FOVR_ENABLE_n" is set to "Y". • For the fixed value setting, see REG_RTX_INTVL_n, page 267. |
| Value Range | <ul style="list-style-type: none"> • y: Use a random value • n: Use a fixed value |
| Default Value | N |

[ENH_FOVR_RANDOM_MAX_TIME_n](#)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the maximum value, in seconds, of the retry timer, which determines the interval for re-sending REGISTER requests, when the retry timer is set to be a random value. |
| Note | <ul style="list-style-type: none"> • This setting is available only when "ENH_FOVR_RANDOM_TIMER_n" is set to "Y". |
| Value Range | 10-86400 |
| Default Value | 15 |

[ENH_FOVR_RANDOM_MIN_TIME_n](#)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the minimum value, in seconds, of the retry timer, which determines the interval for re-sending REGISTER requests, when the retry timer is set to be a random value. |
| Note | <ul style="list-style-type: none"> • This setting is available only when "ENH_FOVR_RANDOM_TIMER_n" is set to "Y". |
| Value Range | 10-86400 |
| Default Value | 10 |

[INVITE_403_REGSEND_ENABLE_n](#)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable sending a REGISTER request to the SIP server after receiving 403 error in response to an INVITE request. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | Y |

ESCAPECODE_CONVERSION_RFC3986

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to comply with RFC2396 or RFC3986 for reserved characters. |
| Value Range | <ul style="list-style-type: none"> • Y: RFC3986 compliant • N: RFC2396 compliant |
| Default Value | N |

ENH_FOVR_RESPONSE_CODE

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the error code for failover. Note <ul style="list-style-type: none">• The available error codes are: 403, 404, 406, 408, 480, 488, 500, 502, 503, 504, 600, 603, 604, 606 Example: ENH_FOVR_RESPONSE_CODE="408, 603" |
| Value Range | Max. 256 characters |
| Default Value | Empty string |

ENH_FOVR_REGISTER_ENABLE_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies whether to enable failover when the response to a REGISTER request is the error code set for ENH_FOVR_RESPONSE_CODE. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | Y |

ENH_FOVR_INVITE_ENABLE_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |

4.24 SIP Settings

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to enable failover when the response to an INVITE request is the error code set for ENH_FOVR_RESPONSE_CODE. |
| Value Range | <ul style="list-style-type: none">• Y: Enable• N: Disable |
| Default Value | Y |

ENH_FOVR_SUBSCRIBE_ENABLE_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies whether to enable failover when the response to a SUBSCRIBE request is the error code set for ENH_FOVR_RESPONSE_CODE. |
| Value Range | <ul style="list-style-type: none">• Y: Enable• N: Disable |
| Default Value | Y |

ENH_FOVR_BYE_ENABLE_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies whether to enable failover when the response to a BYE request is the error code set for ENH_FOVR_RESPONSE_CODE. |
| Value Range | <ul style="list-style-type: none">• Y: Enable• N: Disable |
| Default Value | Y |

SUBSCRIBE_403_REGSEND_ENABLE_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies whether to send a REGISTER request when "403" is received as the response to a SUBSCRIBE request. |
| Value Range | <ul style="list-style-type: none">• Y: Send• N: Do not send |
| Default Value | N |

SIP_UDP_RANDOM_PORT

| | |
|---------------------|---------|
| Value Format | BOOLEAN |
|---------------------|---------|

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to assign a source port number randomly (ephemeral port) or to use a static source port number when using UDP. |
| Note | <ul style="list-style-type: none"> This parameter applies to all lines that use UDP. |
| Value Range | <ul style="list-style-type: none"> Y: Assign a source port number randomly N: Use a static source port number (Refer to SIP_SRC_PORT_n) |
| Default Value | N |
| Web User Interface Reference | UDP Port Random |

ADD_PORT_FROM_AND_TO_HEADER_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to add the SIP port number to the "From" and "To" headers. |
| Value Range | <ul style="list-style-type: none"> Y: Add N: Do not add Note Operation if set to "Y": <ul style="list-style-type: none"> If the phone receives a message with a SIP port number to the "From" / "To" headers from the server, the phone adds the SIP port number in the transactions that follow in the same dialog. The phone does not add the SIP port number to the "From" / "To" headers in the initial INVITE when it makes a call. The phone does not add the SIP port number in SIP methods other than the incoming call dialog (e.g., REGISTER, SUBSCRIBE). |
| Default Value | N |

NAPTR_WITH_OUTPROXY_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|----------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable sending NAPTR even when "Outbound Proxy Server Address" or "SIP_OUTPROXY_ADDR_n" is set. |

| | |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> Y: Enable N: Disable |
| Note | |
| | <ul style="list-style-type: none"> This setting is available only when "SIP_DNSSRV_ENA_NAPTR_n" is set to "Y". |

SIP_TRANSPORT_NAPTR_ENABLE_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies whether the protocol for SIP (UDT, TCP, or TLS) can be selected by the NAPTR response. At the same time, this setting specifies whether the secure protocol for SIP (SIPS or TLS) can be selected by the NAPTR response. |
| Value Range | <ul style="list-style-type: none"> Y: Enable N: Disable |
| Note | |
| | <p>If "Y" is specified, the following settings will be invalidated.</p> <ul style="list-style-type: none"> – Web User Interface Programming Transport Protocol, TLS Mode – Configuration File Programming SIP_TRANSPORT_n, SIP_TLS_MODE_n |
| Default Value | N |

SRTP_CONNECT_MODE_NAPTR_ENABLE_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies whether the type of RTP (RTP or SRTP) can be selected by the NAPTR response. |
| Value Range | <ul style="list-style-type: none"> Y: Enable N: Disable |
| Note | |
| | <p>If "Y" is specified, the following settings will be invalidated.</p> <ul style="list-style-type: none"> – Web User Interface Programming SRTP Mode – Configuration File Programming SRTP_CONNECT_MODE_n |
| Default Value | N |

SEND_182_QUEUED_ENABLE

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to send 182 before the INVITE reply (200 OK). |
| Value Range | <ul style="list-style-type: none"> • Y: Send 182 • N: Dot not send 182 |
| Default Value | N |

SIP_FOVR_FAILBACK_ENABLE_n

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether performs failback. When this parameter is disabled, KX-TGP700 does not perform failback after the once failover performed. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | Y |

4.25 SIP-TLS Settings

SIP_TRANSPORT_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies which transport layer protocol to use for sending SIP packets. |
| Value Range | <ul style="list-style-type: none"> • 0: UDP • 1: TCP • 2: TLS |
| Note | <ul style="list-style-type: none"> • If "SIP_DNSSRV_ENA_NAPTR_n" is set to "Y", match the protocol of NAPTR with the setting for "Transport Protocol" or "SIP_TRANSPORT_n". |
| Default Value | 0 |
| Web User Interface Reference | Transport Protocol |

SIP_TLS_MODE_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies the secure SIP protocol. |

4.25 SIP-TLS Settings

| | |
|-------------------------------------|--------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• 0: SIPS• 1: SIP-TLS |
| Default Value | 0 |
| Web User Interface Reference | TLS Mode |

SIP_TLS_RECONNECT_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to perform TLS reconnect after TLS session is disconnected. |
| Value Range | <ul style="list-style-type: none">• y: Performs TLS connection automatically• n: Does not perform |
| Default Value | y |

SIP_TLS_SRV_PREFIX_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies a prefix to add to the domain name when performing a DNS SRV lookup using TLS. |
| Value Range | Max. 32 characters |
| Default Value | _sips._tcp. |
| Web User Interface Reference | SRV lookup Prefix for TLS |

SIP_TLS_VERIFY_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to enable the verification of the root certificate. |
| Value Range | <ul style="list-style-type: none">• 0: No verification• 1: Simple verification• 2: Precise verification• 3: Precise verification with CN check |
| Default Value | 0 |

SIP_TLS_ROOT_CERT_PATH

| | |
|---------------------|---------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the root certificate is stored. |

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------|
| Value Range | Max. 384 characters |
| Note | <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

SIP_TLS_CLIENT_CERT_PATH

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the client certificate is stored. |
| Value Range | Max. 384 characters |
| Note | <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

SIP_TLS_PKEY_PATH

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the private key is stored. |
| Value Range | Max. 384 characters |
| Note | <ul style="list-style-type: none"> For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

SIP_TLS_RANDOM_PORT

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to assign a random port (ephemeral port) number or a static port number. |
| Note | <ul style="list-style-type: none"> All lines that use SIP-TLS are defined by this parameter. UDP/TCP ports are unaffected by this parameter. |
| Value Range | <ul style="list-style-type: none"> Y: Assign a random TLS port number N: Assign a static TLS port number (Refer to SIP_SRC_PORT_n) |
| Default Value | Y |

4.26 CODEC Settings

[CODEC_G729_PARAM_n](#)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to add an attribute line, "a=fmtp:18 annexb=no", to SDP when the codec is set to "G729A". |
| Value Range | <ul style="list-style-type: none"> • 0: Do not add "a=fmtp:18 annexb=no" • 1: Add "a=fmtp:18 annexb=no" |
| Default Value | 0 |

[CODEC_ENABLEx_n](#)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the codec specified in the parameter list. |
| Note | <ul style="list-style-type: none"> • The "x" character in the parameter title should be changed to one of the following numbers, according to the codec to be changed. <ul style="list-style-type: none"> – 0: G.722 – 1: PCMA – 2: – – 3: G.729A – 4: PCMU – 5: Opus • For codec setting examples, see 2.5.1 Examples of Codec Settings. |
| Value Range | <ul style="list-style-type: none"> • y: Enable • n: Disable |
| Default Value | y |
| Web User Interface Reference | <ul style="list-style-type: none"> • G.722 Enable • PCMA Enable • G.729A Enable • PCMU Enable • Opus Enable |

CODEC_PRIORITYx_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | <p>Specifies the priority order for the codec.</p> <p>Note</p> <ul style="list-style-type: none"> The "x" character in the parameter title should be changed to one of the following numbers, according to the codec to be changed. <ul style="list-style-type: none"> – 0: G.722 – 1: PCMA – 2: – – 3: G.729A – 4: PCMU – 5: Opus For codec setting examples, see 2.5.1 Examples of Codec Settings. |
| Value Range | 1–255 |
| Default Value | 1 |
| Web User Interface Reference | <ul style="list-style-type: none"> G.722 Priority PCMA Priority G.729A Priority PCMU Priority Opus Priority |

CODEC_G711_REQ

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to automatically select "PCMU" as the codec when a codec other than "PCMU" is selected. |
| Value Range | <ul style="list-style-type: none"> 0: Do not set "PCMU" 1: Set "PCMU" |
| Default Value | 1 |

OPUS_BAND_TYPE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|--------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the band type of the Opus codec. |

4.27 DTMF Settings

| | |
|----------------------|-----------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• 0: Narrow Band• 1: Wide Band |
| Default Value | 1 |

4.27 DTMF Settings

DTMF_METHOD_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies the method to notify the DTMF. |
| Value Range | <ul style="list-style-type: none">• 0: RFC2833• 1: Inband• 2: SIP INFO• 3: RFC2833 & SIP INFO |
| | Note <ul style="list-style-type: none">• RFC2833 refers to Outband DTMF.• Inband refers to Inband DTMF. |
| Default Value | 0 |
| Web User Interface Reference | DTMF Type |

OUTBANDDTMF_VOL

| | |
|----------------------|--------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the volume (in decibels [dB]) of the DTMF tone using RFC 2833. |
| Value Range | -63–0 |
| Default Value | -5 |

INBANDDTMF_VOL

| | |
|----------------------|----------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the volume (in decibels [dB]) of in-band DTMF tones. |
| Value Range | -46–0 |
| Default Value | -5 |

DTMF_SIGNAL_LEN

| | |
|----------------------|-----------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the length of the DTMF signal, in milliseconds. |
| Value Range | 60–200 |
| Default Value | 180 |

DTMF_INTDIGIT_TIM

| | |
|----------------------|----------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in milliseconds, between DTMF signals. |
| Value Range | 60–200 |
| Default Value | 90 |

4.28 RTP/RTCP/RTCP-XR Settings**DSCP_RTP_n**

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies the DSCP level of DiffServ applied to RTP packets. |
| Value Range | 0–63 |
| Default Value | 0 |
| Web User Interface Reference | RTP Packet QoS (DSCP) |

DSCP_RTCP_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies the DSCP level of DiffServ applied to RTCP/RTCP-XR packets. |
| Value Range | 0–63 |
| Default Value | 0 |
| Web User Interface Reference | RTCP Packet QoS (DSCP) |

MAX_DELAY_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies the maximum delay, in 10-millisecond units, of the jitter buffer. |
| Value Range | 3–50 ($\times 10$ ms) |
| | <p>Note</p> <ul style="list-style-type: none"> • This setting is subject to the following conditions: <ul style="list-style-type: none"> – This value must be greater than "NOM_DELAY" – This value must be greater than "MIN_DELAY" |
| Default Value | 20 |

MIN_DELAY_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the minimum delay, in 10-millisecond units, of the jitter buffer. |
| Value Range | 1 or 2 ($\times 10$ ms) |
| Note | <ul style="list-style-type: none"> • This setting is subject to the following conditions: <ul style="list-style-type: none"> – This value must be less than "MAX_DELAY" |
| Default Value | 2 |

NOM_DELAY_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the initial delay, in 10-millisecond units, of the jitter buffer. |
| Value Range | 1–7 ($\times 10$ ms) |
| Note | <ul style="list-style-type: none"> • This setting is subject to the following conditions: <ul style="list-style-type: none"> – This value must be less than "MAX_DELAY" |
| Default Value | 1 |

RTP_PORT_MIN

| | |
|-------------------------------------|--------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the lowest port number that the unit will use for RTP packets. |
| Value Range | 1024–59598 (only even) |
| Default Value | 16000 |
| Web User Interface Reference | Minimum RTP Port Number |

RTP_PORT_MAX

| | |
|-------------------------------------|---------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the highest port number that the unit will use for RTP packets. |
| Value Range | 1424–59998 (only even) |
| Default Value | 20000 |
| Web User Interface Reference | Maximum RTP Port Number |

RTP_PTIME

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in milliseconds, between transmissions of RTP packets. |
| Value Range | <ul style="list-style-type: none"> • 20 • 30 • 40 • 60 |
| Default Value | 20 |
| Web User Interface Reference | RTP Packet Time |

RTCP_ENABLE_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable RTCP (Real-Time Transport Control Protocol). For details, refer to RFC 3550. |
| Value Range | <ul style="list-style-type: none"> • y: Enable RTCP • n: Disable RTCP |
| Default Value | n |
| Web User Interface Reference | Enable RTCP |

RTCP_INTVL_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies the interval, in seconds, between RTCP/RTCP-XR packets. |
| Value Range | 5–65535 |
| Default Value | 5 |
| Web User Interface Reference | RTCP&RTCP-XR Interval |

RTCP_SEND_BY_SDP_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies whether to send RTCP signals by SDP (Session Description Protocol). |

4.29 SRTP Settings

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | 0–1 <ul style="list-style-type: none">– 0: Send RTCP signals using the value specified in "RTCP_INTVL_n", if the "RTCP_ENABLE_n" parameter is enabled.– 1: Send RTCP signals using the value specified in the SDP attribute "a=rtcp:". |
| Default Value | 0 |

RTP_CLOSE_ENABLE_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies whether to enable processing to close held RTP sockets. |
| Value Range | <ul style="list-style-type: none">• y: Enable RTP Close• n: Disable RTP Close |
| Default Value | n |

RTCPXR_ENABLE_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable RTCP-XR. |
| Value Range | <ul style="list-style-type: none">• y: Enable RTCP-XR• n: Disable |
| Default Value | n |
| Web User Interface Reference | Enable RTCP-XR |

4.29 SRTP Settings

SRTP_CONNECT_MODE_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies the mode of SRTP feature. |

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • 0: SRTP • 1: RTP/SRTP • 2: Panasonic Original • 3: SRTP/RTP <p>Note</p> <ul style="list-style-type: none"> • 0: Use only SRTP for outgoing and incoming calls. • 1: Use only RTP for outgoing calls, and RTP or SRTP for incoming calls. • 2: Use RTP or SRTP for both outgoing and incoming calls. This value is valid only when the unit is connected to a Panasonic PBX. "SRTP_MIX_TRANSFER_ENABLE_n" must also be set to "Y". • 3: If you are using "RTP/AVP" and append "a=crypto", and the response message includes "a=crypto", the conversation will be established with SRTP. If "a=crypto" is not included, the conversation will be established with RTP. |
| Default Value | 1 |
| Web User Interface Reference | SRTP Mode |

[SRTP_MIX_CONFERENCE_ENABLE_n](#)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to allow conferences where each participant can use either SRTP or RTP. |
| Value Range | <ul style="list-style-type: none"> • y: Enable • n: Disable |
| Default Value | n |
| Web User Interface Reference | Enable Mixed SRTP & RTP by Conference |

[SRTP_MIX_TRANSFER_ENABLE_n](#)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to allow call transfers between a user who is using SRTP and a user who is using RTP. |
| Value Range | <ul style="list-style-type: none"> • y: Enable • n: Disable |
| Default Value | n |
| Web User Interface Reference | Enable Mixed SRTP & RTP by Transfer |

SRTP_HELD_CALL_RTP_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to allow playing the melody on hold over RTP on a call that is using SRTP. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | Y |

DISPLAY_SRTP_CALL_ENABLE

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Selects whether an icon is displayed when the unit is using encrypted call mode (SRTP). Note <ul style="list-style-type: none"> • If you enable displaying the encrypted call mode icon during SRTP calls, it is recommended that you set as below: <ol style="list-style-type: none"> (1) Set "DISPLAY_SECURITY_CALL_ENABLE" to "Y". To set the "TLS" condition for displaying the privacy icon during a conversation over SRTP. (2) Set "SIP_TRANSPORT_n" to "2". To send by TLS transport layer protocol. (3) Set "SIP_TLS_VERIFY_n" to "3". To do precise verification with CN check. • If "SIP_DNSSRV_ENA_NAPTR_n" is set to "Y", using SIP TLS for NAPTR is recommended. |
| Value Range | <ul style="list-style-type: none"> • Y: Display an icon for encrypted calls • N: Disable |
| Default Value | N |

DISPLAY_SECURITY_CALL_ENABLE

| | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies the condition for displaying the privacy icon during a conversation over SRTP. |
| Value Range | <ul style="list-style-type: none"> • Y: TLS • N: UDP/TCP/TLS |
| Note | <ul style="list-style-type: none"> • This setting is available only when "DISPLAY_SRTP_CALL_ENABLE" is set to "Y". |

4.30 VQ Report by PUBLISH

VQREPORT_COLLECTOR_ADDRESS

| | |
|-------------------------------------|-----------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of the collector server. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |
| Web User Interface Reference | Server Address |

VQREPORT_COLLECTOR_PORT

| | |
|-------------------------------------|---------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port of the collector server. |
| Value Range | 1–65535 |
| Default Value | 5060 |
| Web User Interface Reference | Port |

VQREPORT_SEND

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the sending type of the VQ report using PUBLISH. |
| Value Range | <ul style="list-style-type: none"> • 0: Disable • 1: End of Session Report Using PUBLISH • 2: Interval report Using PUBLISH • 3: Alert Report Using PUBLISH |
| Default Value | 0 |
| Web User Interface Reference | Enable PUBLISH |

ALERT_REPORT_TRIGGER

| | |
|-------------------------------------|---------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the trigger to notify the VQ report. |
| Value Range | <ul style="list-style-type: none"> • 0: Warning • 1: Critical |
| Default Value | 0 |
| Web User Interface Reference | Alert Report Trigger |

ALERT_REPORT_MOSQ_CRITICAL

| | |
|---------------------|--------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the critical criteria to send VQ report at the time of occurring the MOSQ. |
| Value Range | 0–40 |

| | |
|-------------------------------------|-----------------------------|
| Default Value | 0 |
| Web User Interface Reference | Threshold MOS-LQ (Critical) |

ALERT_REPORT_MOSQ_WARNING

| | |
|-------------------------------------|-------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the warning criteria to send VQ report at the time of occurring the MOSQ. |
| Value Range | 0–40 |
| Default Value | 0 |
| Web User Interface Reference | Threshold MOS-LQ (Warning) |

ALERT_REPORT_DELAY_CRITICAL

| | |
|-------------------------------------|---------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the critical criteria to send VQ report at the time of occurring the delay. |
| Value Range | 0–2000 |
| Default Value | 0 |
| Web User Interface Reference | Threshold Delay (Critical) |

ALERT_REPORT_DELAY_WARNING

| | |
|-------------------------------------|--------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the warning criteria to send VQ report at the time of occurring the delay. |
| Value Range | 0–2000 |
| Default Value | 0 |
| Web User Interface Reference | Threshold Delay (Warning) |

VQREPORT_SIGNAL_COMPRESSION

| | |
|----------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to use signal compression for sending VQ report. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | N |

VQREPORT_SEND_OPT_CODEC_ENABLE

| | |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the sending of VQREPORT (SIP-PUBLISH) when the codec is changed. |
| Value Range | <ul style="list-style-type: none"> • Y: Send VQREPORT when a change of codec is detected • N: Send VQREPORT at the end of a conversation |

| | |
|----------------------|----------|
| Default Value | N |
|----------------------|----------|

VQREPORT_SEND_OPT_NW_CHANGE

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the number of consecutive times the MOS (Mean Opinion Score) value may fall below the threshold value specified by either ALERT_REPORT_MOSQ_CRITICAL or ALERT_REPORT_MOSQ_WARNING before the phone sends VQREPORT. The ALERT_REPORT_TRIGGER setting determines whether ALERT_REPORT_MOSQ_CRITICAL or ALERT_REPORT_MOSQ_WARNING is used as the threshold. |
| Value Range | 0-5 (The number of consecutive times. 0:Disable) Example: <ul style="list-style-type: none">• If "2" is specified and the MOS value falls within the threshold 2 consecutive times, VQREPORT is sent. |
| Default Value | 0 |

VQREPORT_PACKET_LOSS_DETECTION

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable improvement of the MOS value when accessing the Voice Mail Server. The MOS value is improved by changing the detection method for packet loss. |
| Value Range | <ul style="list-style-type: none">• Y: Enable• N: Disable |
| Default Value | N |

4.31 uaCSTA Settings

UACSTA_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the uaCSTA feature. |
| Value Range | <ul style="list-style-type: none">• Y: Enable• N: Disable |
| Default Value | N |

UACSTA_UNIQUE_ID

| | |
|---------------------|-------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the SIP-URI for registering to CSTA server. |

4.31 uaCSTA Settings

| | |
|----------------------|--------------------|
| Value Range | Max. 64 characters |
| Default Value | Empty string |

CSTA_PORT

| | |
|----------------------|-----------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the source port number used by the unit for uaCSTA communication. |
| Value Range | 1–65535 |
| Default Value | 6060 |

CSTA_PRXY_ADDR

| | |
|----------------------|----------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of the proxy server for CSTA. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |

CSTA_PRXY_PORT

| | |
|----------------------|--------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port of the proxy server for CSTA. |
| Value Range | 1–65535 |
| Default Value | 5060 |

CSTA_RGSTR_ADDR

| | |
|----------------------|--------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of the registrar server for CSTA. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |

CSTA_RGSTR_PORT

| | |
|----------------------|------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port of the registrar server for CSTA. |
| Value Range | 1–65535 |
| Default Value | 5060 |

CSTA_REG_EXPIRE_TIME

| | |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the length of time, in seconds, that the registration remains valid. This value is set in the "Expires" header of the REGISTER request for CSTA. |
| Value Range | 1–4294967295 |

| | |
|----------------------|------|
| Default Value | 3600 |
|----------------------|------|

CSTA_TRANSPORT

| | |
|----------------------|------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies which transport layer protocol to use for sending SIP packets. |
| Value Range | <ul style="list-style-type: none"> • 0: UDP • 1: TCP • 2: TLS |
| Default Value | 0 |

CSTA_RGSTR_AUTHID

| | |
|----------------------|--------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the authentication ID for received REGISTER. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |

CSTA_RGSTR_PASS

| | |
|----------------------|--------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the authentication password for received REGISTER. |
| Value Range | Max. 128 characters |
| Default Value | Empty string |

4.32 Telephone Settings

POWER_ON_DISPLAY_LOGO_PATH (For KX-TPA60/KX-TPA65)

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies URI for logo image file displayed when power is turned on. Size: 128 × 160 File type: BMP (1/4/8/24 bit) |
| Value Range | Max. 384 characters |
| Note | <ul style="list-style-type: none"> • For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

DISPLAY_WALLPAPER_DARK_PATH (For KX-TPA60/KX-TPA65)

| | |
|---------------------|--------|
| Value Format | STRING |
|---------------------|--------|

4.32 Telephone Settings

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the URI of a wallpaper file to use in standby mode for the dark display setting. Size: 128 x 116 File type: BMP (1/4/8/24 bit) |
| Value Range | Max. 384 characters Note <ul style="list-style-type: none">For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

DISPLAY_WALLPAPER_LIGHT_PATH (For KX-TPA60/KX-TPA65)

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI of a wallpaper file to use in standby mode for the light display setting. Size: 128 x 116 File type: BMP (1/4/8/24 bit) |
| Value Range | Max. 384 characters Note <ul style="list-style-type: none">For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

FIRSTDIGIT_TIM

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the length of time, in seconds, within which the first digits of a dial number must be dialed. |
| Value Range | 1–600 (s) |
| Default Value | 30 |
| Web User Interface Reference | First-digit Timeout |

INTDIGIT_TIM

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the length of time, in seconds, within which subsequent digits of a dial number must be dialed. |
| Value Range | 1–15 (s) |
| Default Value | 5 |
| Web User Interface Reference | Inter-digit Timeout |

POUND_KEY_DELIMITER_ENABLE

| | |
|---------------------|---------|
| Value Format | BOOLEAN |
|---------------------|---------|

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether the # key is treated as a regular dialed digit or a delimiter, when dialed as or after the second digit. |
| Value Range | <ul style="list-style-type: none"> • Y: # is treated as the end of dialing delimiter • N: # is treated as a regular dialed digit |
| Default Value | Y |
| Web User Interface Reference | Enable # Key as delimiter |

POST_DIAL_TALK_ENABLE

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the Talk-key is treated as a calling button or as a switch for SP-phone mode during post dialing (KX-TPA60/KX-TPA70/KX-TPA73). |
| Value Range | <ul style="list-style-type: none"> • Y: The Talk-key is used to make the call. • N: The Talk-key is used as a switch for SP-phone mode. |
| Default Value | Y |

RINGTONET_SETTING_HSy_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the ringtone to each line for a handset. |
| Value Range | 1–32 |
| Default Value | RINGTONET_SETTING_HSy_1=1, RINGTONET_SETTING_HSy_2=2, RINGTONET_SETTING_HSy_3=3, RINGTONET_SETTING_HSy_4=4, RINGTONET_SETTING_HSy_5=5, RINGTONET_SETTING_HSy_6=6, RINGTONET_SETTING_HSy_7=7, RINGTONET_SETTING_HSy_8=8, RINGTONET_SETTING_HSy_9=1, RINGTONET_SETTING_HSy_10=2, RINGTONET_SETTING_HSy_11=3, RINGTONET_SETTING_HSy_12=4, RINGTONET_SETTING_HSy_13=5, RINGTONET_SETTING_HSy_14=6, RINGTONET_SETTING_HSy_15=7, RINGTONET_SETTING_HSy_16=8 |

INTERCOM_RINGTONE_SETTING_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|--------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the intercom ringtone to each handset. |
| Value Range | 1–32 |
| Default Value | 9 |

DISPLAY_NAME_REPLACE

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the name saved in the phonebook is used in place of the name display if a matching entry is found. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable Display Name Replace • N: Disable Display Name Replace |
| Default Value | Y |

NUMBER_MATCHING_LOWER_DIGIT

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the minimum number of digits with which to match a phonebook entry with an incoming call's caller ID. |
| Value Range | 0–15 |
| Default Value | 7 |

NUMBER_MATCHING_UPPER_DIGIT

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the maximum number of digits with which to match a phonebook entry with an incoming call's caller ID. |
| Value Range | 0–15 |
| Default Value | 10 |

INCOMING_BUSY_ENABLE

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Operation of a second incoming call on the same line when the device is using the radio broadcast. <ul style="list-style-type: none"> • Y: Busy Response • N: Receive incoming call (using a second radio broadcast.) |
| Value Range | <ul style="list-style-type: none"> • Y: Enable (Busy) • N: Disable (Broadcast) |
| Default Value | Y |

FLASH_RECALL_TERMINATE

| | |
|----------------------|--------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies the function of the FLASH/RECALL button during a conversation. |
| Value Range | <ul style="list-style-type: none"> • Y: Terminate • N: EFA |
| Default Value | Y |

FLASHHOOK_CONTENT_TYPE

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the type of signal sent when sending a flash hook event. |
| Value Range | <ul style="list-style-type: none"> • <code>Signal</code> • <code>flashhook</code> |
| Default Value | <code>Signal</code> |

NUM_PLAN_PARKING

| | |
|-------------------------------------|------------------------------------|
| Value Format | STRING |
| Description | Specifies the call parking number. |
| Value Range | 0–4 digits (0–9, *, #) |
| Default Value | Empty string |
| Web User Interface Reference | Call Park Number |

CALLPARK_KEY_ENABLE

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to display "Call Park" in the Call Parking Func menu. |
| Value Range | <ul style="list-style-type: none"> • <code>Y</code>: Enable • <code>N</code>: Disable |
| Default Value | <code>N</code> |
| Web User Interface Reference | Enable Call Park Key |

NUM_PLAN_PARK_RETRIEVING

| | |
|-------------------------------------|-------------------------------------|
| Value Format | STRING |
| Description | Specifies the park retrieve number. |
| Value Range | 0–4 digits (0–9, *, #) |
| Default Value | Empty string |
| Web User Interface Reference | Park Retrieve Number |

IDLE_SOFT_KEY_PARK_RETRIEVING

| | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | <p>Specifies whether to have soft key for the park retrieving.</p> <p>Note</p> <ul style="list-style-type: none"> • This feature is available only when <code>"CALLPARK_NOTIFICATION_ENABLE_n"</code> is set to "Y", and <code>"NUM_PLAN_PARK_RETRIEVING"</code> is set (see <code>CALLPARK_NOTIFICATION_ENABLE_n</code>, <code>NUM_PLAN_PARK_RETRIEVING</code>). |

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • 0: no • 1: Soft Key (A) • 2: Soft Key (B) • 3: Soft Key (C) |
| Default Value | 0 |
| Web User Interface Reference | Park Retrieve Soft Key |

HOLD_RECALL_TIM

| | |
|----------------------|-------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the duration of the hold recall timer. If set to "0", the function is disabled. |
| Value Range | 0–240 (0: Disable) |
| Default Value | 60 |

HOLD_TRANSFER_OPERATION

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to transfer a call by Hold button. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable (Press the Hold button to transfer a call.) talk → hold → 2nd talk → Transfer (or on-hook) • N: Disable (Press the Transfer button to transfer a call.) talk → transfer → 2nd talk → transfer (or on-hook) |
| Default Value | N |

XFER_KEY_OPERATION_MODE (For KX-TPA70/KX-TPA73)

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the behavior when the transfer button is pressed. |
| Value Range | <ul style="list-style-type: none"> • 0: Selectable (display a screen) • 1: Blind Transfer¹ • 2: Attended Transfer • 3: Intercom Transfer² <p>¹ This setting is available only when "BLIND_TRANSFER_ENABLE"="Y". ² This setting is available only when "INTERCOM_ENABLE"="Y".</p> |
| Default Value | 0 |

ONHOOK_TRANSFER_ENABLE

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable on hook transfer when HOLD_TRANSFER_OPERATION="N". |
| Value Range | <ul style="list-style-type: none"> • Y: Enable On-hook Transfer • N: Disable On-hook Transfer |

| | |
|----------------------|---|
| Default Value | Y |
|----------------------|---|

ONHOOK_HOLD_TRNS_ENABLE

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable on hook transfer when HOLD_TRANSFER_OPERATION="Y". |
| Value Range | <ul style="list-style-type: none"> • Y: Enable On-hook Transfer • N: Disable On-hook Transfer |
| Default Value | N |

BLIND_TRANSFER_ENABLE

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable blind transfer. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Note | <ul style="list-style-type: none"> • (For KX-TPA60/KX-TPA65/KX-TPA70/KX-TPA73) If set to "Y" and TALKING_SOFT_KEY_C="0" and PRIVATE_HOLD_ENABLE="N", "Blind" is displayed on Soft Key C. |
| Default Value | Y |

SYS_LOCK_ENABLE_HSy

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies whether to enable locking handset. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | N |
| Web User Interface Reference | Enable Handset Lock |

SYS_LOCK_PASSWORD_HSy

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | STRING |
| Description | Specifies the password for unlocking handset. |
| Value Range | Null, 4 digits (0–9) |
| Default Value | Empty string |
| Web User Interface Reference | Password for Unlocking |

INTERCOM_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable intercom menu. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | Y |

PAUSE_INPUT_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable pause input. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | N |

REGISTRATION_PIN

| | |
|----------------------|--------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the base unit PIN, which is used to register the handset to the base unit. |
| Value Range | 4 Digits, Decimal |
| Default Value | 1234 |

CUSTOM_TIME_DISPLAY

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies where on the LCD the date and time are displayed. |
| Value Range | <ul style="list-style-type: none"> • 0: Normal • 1: 2nd line • 2: 3rd line • 3: 4th line • 4: 5th line |
| Default Value | 0 |

CNIP_FROM_ENABLE

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to use the 'FROM' header or the 'PAI' header in CNIP (Calling Number Identification Presentation). |
| Value Range | <ul style="list-style-type: none"> • Y: Use 'FROM' header • N: Use 'PAI' header |
| Default Value | N |

HS_IDLE_DISPLAY_TYPE

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies what is shown on the display in standby mode. |
| Value Range | <ul style="list-style-type: none"> • 0: Off • 1: Phone Number • 2: Phone Number and Line Name • 3: Handset Name |
| Default Value | 1 |

NOISE_REDUCTION_MODE_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to enable the Noise Reduction feature of each handset. |
| Value Range | <ul style="list-style-type: none"> • 0: Disable Noise Reduction • 1: Enable Noise Reduction |
| Default Value | 0 |

TALK_ON_CHARGE_MODE_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to enable the Talk On Charger feature of each handset. |
| Value Range | <ul style="list-style-type: none"> • 0: Disable Talk On Charger • 1: Enable Talk On Charger |
| Default Value | 0 |

NUM_PLAN_PICKUP_GROUP

| | |
|-------------------------------------|-------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the feature number for performing "Group Pickup". |
| Value Range | 0–4 digits (0–9, *, #) |
| Default Value | Empty string |
| Web User Interface Reference | Group Call Pickup |

SOFT_KEY_LABELx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|--------|
| Value Format | STRING |
|---------------------|--------|

| | |
|----------------------|-----------------------------------------------------------------------------------------|
| Description | x=1-3 Specifies the text of the soft keys displayed on the screen for quick dialing. |
| Note | This setting is available only when "DISCLOSE_FUNCTION_ENABLE" is set to "N". |
| Value Range | Max. 5 characters |
| Default Value | SOFT_KEY_LABEL1: 1 SOFT_KEY_LABEL2: 2 SOFT_KEY_LABEL3: 3 |

SOFT_KEY_QUICK_DIALx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | x=1-3 Specifies quick-dial numbers to assign to the soft keys. |
| Note | This setting is available only when "DISCLOSE_FUNCTION_ENABLE" is set to "N". |
| Value Range | Max. 32 characters |
| Default Value | Empty string |

HANDSET_VOLUME_LEVEL (For KX-TPA60/KX-TPA65/KX-TPA70/KX-TPA73)

| | |
|----------------------|------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the handset receiver's volume level. |
| Value Range | 1–6 |
| Default Value | 2 |

HANDSET_VOLUME_LEVEL2 (For KX-TPA68)

| | |
|----------------------|------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the handset receiver's volume level. |
| Value Range | 1–8 |
| Default Value | 4 |

HEADSET_VOLUME_LEVEL (For KX-TPA60/KX-TPA65/KX-TPA70/KX-TPA73)

| | |
|----------------------|------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the headset receiver's volume level. |
| Value Range | 1–6 |
| Default Value | 2 |

HEADSET_VOLUME_LEVEL2 (For KX-TPA68)

| | |
|----------------------|------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the headset receiver's volume level. |
| Value Range | 1–8 |
| Default Value | 4 |

SPEAKER_VOLUME_LEVEL (For KX-TPA60/KX-TPA65/KX-TPA70/KX-TPA73)

| | |
|----------------------|------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the speaker receiver's volume level. |
| Value Range | 1–6 |
| Default Value | 3 |

SPEAKER_VOLUME_LEVEL2 (For KX-TPA68)

| | |
|----------------------|------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the speaker receiver's volume level. |
| Value Range | 1–8 |
| Default Value | 4 |

RINGER_VOLUME_LEVEL (For KX-TPA60/KX-TPA65/KX-TPA70/KX-TPA73)

| | |
|----------------------|-------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the value of the ringer volume. |
| Value Range | 1–6 |
| Default Value | 3 |

RINGER_VOLUME_LEVEL2 (For KX-TPA68)

| | |
|----------------------|-------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the value of the ringer volume. |
| Value Range | 0–8 |
| Default Value | 4 |

RINGER_VOL_OPERATION_ENABLE

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable ringer volume adjustment. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable ringer volume adjustment • N: Disable |
| Default Value | Y |

CNIP_CALL_PA1_ENABLE

| | |
|---------------------|---------|
| Value Format | BOOLEAN |
|---------------------|---------|

4.32 Telephone Settings

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to enable using the 'PAI' header in CNIP (Calling Number Identification Presentation) on the display when calling. |
| Value Range | <ul style="list-style-type: none">• Y: Enable• N: Disable |
| Default Value | Y |

EMBEDDED_WEB_PASS_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to require password authentication when setting "Embedded Web" from the phone interface. Note <ul style="list-style-type: none">• This password is same as the administrator password for logging in to Web User Interface Programming. |
| Value Range | <ul style="list-style-type: none">• Y: Require password authentication• N: Do not require password authentication |
| Default Value | N |

NETWORK_SETTINGS_PASS_ENABLE

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to require password authentication when setting "Network Settings" from the phone interface. Note <ul style="list-style-type: none">• This password is same as the administrator password for logging in to Web User Interface Programming. |
| Value Range | <ul style="list-style-type: none">• Y: Require password authentication• N: Do not require password authentication |
| Default Value | N |

HANDSET_NAME_PASS_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to require password authentication when setting "Handset Name" from the phone interface. Note <ul style="list-style-type: none">• This password is same as the administrator password for logging in to Web User Interface Programming. |
| Value Range | <ul style="list-style-type: none">• Y: Require password authentication• N: Do not require password authentication |
| Default Value | N |

CALLER_ID_DISP_PASS_ENABLE

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to require password authentication when setting "Caller ID Disp" from the phone interface. |
| Note | <ul style="list-style-type: none"> • This password is same as the administrator password for logging in to Web User Interface Programming. |
| Value Range | <ul style="list-style-type: none"> • Y: Require password authentication • N: Do not require password authentication |
| Default Value | N |

SYSTEM_OPTION_PASS_ENABLE

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to require password authentication when setting "System Option" from the phone interface. |
| Note | <ul style="list-style-type: none"> • This password is same as the administrator password for logging in to Web User Interface Programming. |
| Value Range | <ul style="list-style-type: none"> • Y: Require password authentication • N: Do not require password authentication |
| Default Value | N |

CHANGE_PASS_PASS_ENABLE

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to require password authentication when setting "Change Password" from the phone interface. |
| Note | <ul style="list-style-type: none"> • This password is same as the administrator password for logging in to Web User Interface Programming. |
| Value Range | <ul style="list-style-type: none"> • Y: Require password authentication • N: Do not require password authentication |
| Default Value | N |

SYSTEM_SETTINGS_PASS_ENABLE

| | |
|---------------------|---------|
| Value Format | BOOLEAN |
|---------------------|---------|

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies whether to require password authentication when setting "System Settings" from the phone interface. |
| Note | <ul style="list-style-type: none"> • This password is same as the administrator password for logging in to Web User Interface Programming. |
| Value Range | <ul style="list-style-type: none"> • Y: Require password authentication • N: Do not require password authentication |
| Default Value | N |

PB_QUICK_SEARCH_ENABLE

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable using the Quick search operation when searching for an item in the phonebook. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | N |

DISPLAY_BARGE_IN_ENABLE

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies the display for on-line status when a shared line is in use. |
| Value Range | <ul style="list-style-type: none"> • Y: "In Use/→" is displayed • N: "In Use" is displayed <p>Note</p> <ul style="list-style-type: none"> • "The word is displayed instead of → depending on the models or the country/area of use. |
| Default Value | N |

CW_DISPLAY_CONTINUATION_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies the display on the LCD during call waiting. |
| Value Range | <ul style="list-style-type: none"> • Y: Show the call waiting screen continuously • N: Switch between the call waiting screen and conversation screen |
| Default Value | N |

POWER_ON_DISPLAY_TPA68_PATH (For KX-TPA68)

| | |
|---------------------|--------|
| Value Format | STRING |
|---------------------|--------|

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the URI of a logo image file to display when power is turned on. Size: 320 × 240 File type: BMP (1/4/8/24 bit) |
| Value Range | Max. 384 characters Note For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

DISPLAY_WALLPAPER_TPA68_PATH (For KX-TPA68)

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI of a wallpaper file to display in standby mode. Note Size: 320 × 184 File type: BMP (1/4/8/24 bit) |
| Value Range | Max. 384 characters Note For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |
| Web User Interface Reference | File Name |

POWER_ON_DISP_W240H320_PATH (For KX-TPA70/KX-TPA73)

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI of a logo image file to display when power is turned on. Note Size: 240 x 320 pixel File type: BMP (1/4/8/24 bit) |
| Value Range | Max. 384 characters Note For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |

DISP_WPAPER_DARK_W240H232_PATH (For KX-TPA70/KX-TPA73)

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI of a wallpaper file to use in standby mode for the dark display setting. Note Size: 240×232 pixel File type: BMP (1/4/8/24 bit) |

4.32 Telephone Settings

| | |
|-------------------------------------|---------------------------------------------------------------------------------|
| Value Range | Max. 384 characters |
| | Note For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |
| Web User Interface Reference | File Name |

DISP_WPAPER_LIGHT_W240H232_PATH (For KX-TPA70/KX-TPA73)

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI of a wallpaper file to use in standby mode for the light display setting. |
| | Note Size: 240×232 pixel File type: BMP (1/4/8/24 bit) |
| Value Range | Max. 384 characters |
| | Note For details about the formats, see 2.1.3 Server Address Formats. |
| Default Value | Empty string |
| Web User Interface Reference | File Name |

CALLWAITING_HOLDKEY_ENABLE (For KX-TPA68)

| | |
|----------------------|------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable answering an incoming call with HOLD key during call waiting. |
| Value Range | <ul style="list-style-type: none">• Y: Enable• N: Disable |
| Default Value | N |

TALKING_ALTERNATE_DISPLAY (For KX-TPA68)

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to alternate the display between the talk time and the other party's information during a conversation. |
| Value Range | <ul style="list-style-type: none">• Y: Enable the alternating display• N: Disable the alternating display |
| Default Value | N |

REMOVE_HYPHEN_ENABLE

| | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to remove hyphens (-) from telephone numbers in the XSI phonebook. A hyphen (-) cannot be used as the first character. |

| | |
|----------------------|-----------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> Y: Enable (remove the hyphen) N: Disable |
| Default Value | Y |

IDLE_CALL_SOFT_KEY_ENABLE (For KX-TPA65)

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable making a call using the soft key when predialing in standby mode or off-hook. |
| Value Range | <ul style="list-style-type: none"> Y: Enable N: Disable |
| Default Value | N |

SHORTCUT_KEY_TYPE_HSy (For KX-TPA70/KX-TPA73)

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies the type of function assigned to the shortcut Key. |
| Value Range | <ul style="list-style-type: none"> 0: Do not assign 1: Hot Key Dial |
| Default Value | 1 |
| Web User Interface Reference | Shortcut Key Function |

UDT_AUTH_MENU_ENABLE (For KX-UDT121/KX-UDT131)

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the authentication (ID and password) setting menu for KX-UDT121/KX-UDT131. |
| Value Range | <ul style="list-style-type: none"> Y: Enable N: Disable <p>Note If "Y" is specified, "Authentication" is displayed on system settings menu.</p> |
| Default Value | N |

CLI_NAME_ENABLE

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the information in the display field of the INVITE "From" header is displayed on the LCD. |
| Value Range | <ul style="list-style-type: none"> Y: Displayed N: Not displayed |

| | |
|----------------------|---|
| Default Value | Y |
|----------------------|---|

CALLHISTORY_ON_HOME_HSy

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies how to display the call history on the idle home screen. |
| Value Range | <ul style="list-style-type: none"> • 0: Always display • 1: Do not display while key lock is active • 2: Never display |
| Default Value | 0 |

DISP_CORRECT_LOGO_ENABLE

| | |
|----------------------|-------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to correct the color of the logo image. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | N |

DISP_CORRECT_WPAPER_DARK_ENABLE

| | |
|----------------------|-------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to correct the color of the wallpaper image of the dark scheme. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | N |

DISP_CORRECT_WPAPER_LIGHT_ENABLE

| | |
|----------------------|-------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to correct the color of the wallpaper image of the light scheme. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | N |

4.33 Flexible Key Settings for KX-TPA68

For details, see 5.7 Flexible Key Setting for KX-TPA68.

FLEX_BUTTON_FACILITY_HS_y_ACT_x (For KX-TPA68)

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | STRING |
| Description | x=1–12 (Flexible key No.), y=1–16 (Handset No.) Specifies a particular Facility Action for the flexible keys on page 2 and page 3. No Facility Action will be taken for the button if the string is empty or invalid. |
| Value Range | X_PANASONIC_IPTEL_ONETOUCH X_PANASONIC_IPTEL_CALLPARK X_PANASONIC_IPTEL_PARKRETRIEVE X_PANASONIC_IPTEL_GROUPPICKUP X_PANASONIC_IPTEL_DIRECTPICKUP X_PANASONIC_IPTEL_PAGING X_PANASONIC_IPTEL_PRESENCE X_PANASONIC_IPTEL_MYPHONE X_PANASONIC_IPTEL_MEOALARM X_PANASONIC_IPTEL_INTERCOM X_PANASONIC_IPTEL_LINE_NOTIFICATION ¹ |
| | ¹ Simultaneous monitoring lines are limited maximum 8. |
| Default Value | Empty string |
| Web User Interface Reference | Type |

FLEX_BUTTON_FACILITY_HS_y_ARG_x (For KX-TPA68)

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | STRING |
| Description | x=1–12 (Flexible key No.), y=1–16 (Handset No.) Specifies an optional argument associated with the Facility Action specified for a flexible key on page 2 and page 3. |
| Value Range | Max. 32 characters |
| Default Value | Empty string |
| Web User Interface Reference | Parameter |

FLEX_BUTTON_FACILITY_HS_y_LABEL_x (For KX-TPA68)

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | STRING |
| Description | x=1–12 (Flexible key No.), y=1–16 (Handset No.) Specifies the name to display on the screen for a flexible key on page 2 and page 3. |
| Value Range | Max. 20 characters |
| Default Value | Empty string |

| | |
|------------------------------|------------|
| Web User Interface Reference | Label Name |
|------------------------------|------------|

FLEX_BUTTON_FACILITY_HSy_OPTx (For KX-TPA68)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | x=1–12 (Flexible key No.), y=1–16 (Handset No.) Specifies the mode for flexible button to be displayed on the screen. |
| Value Range | <ul style="list-style-type: none"> • 0: Mode 0 When you press Line Notification Key assigned to other line in idle status, the line is seized. • 1: Mode 1 When you press Line Notification Key assigned to other line in idle status, an intercom call is made using phone number assigned to other line. In this mode, the icon of a handset is displayed. The condition is as follows. The line assigned to Line Notification Key should NOT be default line of own terminal. |
| Default Value | 0 |

FLEX_BUTTON_FWDDND_ICON (For KX-TPA68)

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies the display of FWD/DND for a flexible key. |
| Value Range | <ul style="list-style-type: none"> • Y: Display as the icon • N: Display as the text |
| Default Value | Y |

FLEX_BUTTON_MISSED_ICON

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies how a missed call is indicated by a flexible key. |
| Value Range | <ul style="list-style-type: none"> • Y: Indicate with an icon • N: Indicate with text |
| Default Value | Y |

FLEX_BUTTON_MESSAGE_ICON

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies how a voice message is indicated by a flexible key. |
| Value Range | <ul style="list-style-type: none"> • Y: Indicate with an icon • N: Indicate with text |
| Default Value | Y |

4.34 Tone Settings

OUTSIDE_DIAL_TONE_FRQ

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the dual-tone frequencies, in hertz, of Second Dial Tone using max. 2 whole numbers separated by a comma. |
| Value Range | 0, 200–2000 (Hz) (0=No tone) |
| Default Value | 420 |

OUTSIDE_DIAL_TONE_GAIN

| | |
|----------------------|------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the gain, in decibels, of Second Dial Tone |
| Value Range | -24–24 (dB) |
| Default Value | 0 |

OUTSIDE_DIAL_TONE_RPT

| | |
|----------------------|---------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether Second Dial Tone is repeated. |
| Value Range | <ul style="list-style-type: none"> • 0: No Repeat • 1: Repeat |
| Default Value | 0 |

OUTSIDE_DIAL_TONE_TIMING

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the pattern, in milliseconds, of Second Dial Tone using Max. 10 whole numbers (off 1, on 1, off 2, on 2...) separated by commas. |
| Value Range | 0–16000 (msec) (0=Continuous) |
| Default Value | 60,0 |

REORDER_TONE_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable reorder tone. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | Y |

TONE_LEN_DISCONNECT

| | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the duration, in seconds, that a disconnect tone will be heard when the other party ends a call and the unit is being used. |

4.34 Tone Settings

| | |
|----------------------|----------|
| Value Range | 1–15 (s) |
| Default Value | 3 |

DIAL_TONE1_FRQ

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the dual-tone frequencies, in hertz, of Dial Tone 1 using 2 whole numbers separated by a comma. |
| Value Range | 0, 200–2000 (Hz) (0: No tone) |
| Default Value | 350,440 |
| Web User Interface Reference | Tone Frequencies |

DIAL_TONE1_GAIN

| | |
|----------------------|--------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the gain, in decibels, of Dial Tone 1. |
| Value Range | -24–24 (dB) |
| Default Value | 0 |

DIAL_TONE1_RPT

| | |
|----------------------|--------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether Dial Tone 1 is repeated. |
| Value Range | 0–1 – 0: No Repeat – 1: Repeat |
| Default Value | 0 |

DIAL_TONE1_TIMING

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the pattern, in milliseconds, of Dial Tone 1 using up to 10 whole numbers (off 1, on 1, off 2, on 2...) separated by commas. Note <ul style="list-style-type: none">It is recommended that you set a value of 60 milliseconds or more for the first value (off 1). |
| Value Range | 0–16000 (msec) (0=Continuous) Note <ul style="list-style-type: none">Avoid setting 1–50 for any of the values. |
| Default Value | 60,0 |
| Web User Interface Reference | Tone Timings |

DIAL_TONE2_FRQ

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the dual-tone frequencies, in hertz, of Dial Tone 2 using 2 whole numbers separated by a comma. |
| Value Range | 0, 200–2000 (Hz) (0: No tone) |
| Default Value | 350,440 |

DIAL_TONE2_GAIN

| | |
|----------------------|--------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the gain, in decibels, of Dial Tone 2. |
| Value Range | -24–24 (dB) |
| Default Value | 0 |

DIAL_TONE2_RPT

| | |
|----------------------|--------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether Dial Tone 2 is repeated. |
| Value Range | 0–1 – 0: No Repeat – 1: Repeat |
| Default Value | 0 |

DIAL_TONE2_TIMING

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the pattern, in milliseconds, of Dial Tone 2 using up to 10 whole numbers (off 1, on 1, off 2, on 2...) separated by commas. Note <ul style="list-style-type: none">• It is recommended that you set a value of 60 milliseconds or more for the first value (off 1). |
| Value Range | 0–16000 (msec) (0:Infinite time) Note <ul style="list-style-type: none">• Avoid setting 1–50 for any of the values. |
| Default Value | 60,0 |

DIAL_TONE4_FRQ

| | |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the dual-tone frequencies, in hertz, of Dial Tone 4 (stutter dial tones) to notify that a voice mail is waiting, using 2 whole numbers separated by a comma. |
| Value Range | 0, 200–2000 (Hz) (0: No tone) |

4.34 Tone Settings

| | |
|-------------------------------------|------------------|
| Default Value | 350,440 |
| Web User Interface Reference | Tone Frequencies |

DIAL_TONE4_GAIN

| | |
|----------------------|---------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the gain, in decibels, of Dial Tone 4 (stutter-type dial tone). |
| Value Range | -24–24 (dB) |
| Default Value | 0 |

DIAL_TONE4_RPT

| | |
|----------------------|----------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether Dial Tone 4 (stutter-type dial tone) is repeated. |
| Value Range | 0–1 <ul style="list-style-type: none">– 0: No Repeat– 1: Repeat |
| Default Value | 0 |

DIAL_TONE4_TIMING

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the pattern, in milliseconds, of Dial Tone 4 (stutter dial tones) to notify that a voice mail is waiting, using up to 22 whole numbers (off 1, on 1, off 2, on 2...) separated by commas. |
| | <p>Note</p> <ul style="list-style-type: none"> It is recommended that you set a value of 560 milliseconds or more for the first value (off 1). |
| Value Range | 0–16000 (msec) (0: Continuous) |
| | <p>Note</p> <ul style="list-style-type: none"> Avoid setting 1–50 for any of the values. |
| Default Value | 560,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,0 |
| Web User Interface Reference | Tone Timings |

BUSY TONE FRQ

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the dual-tone frequencies, in hertz, of busy tones using 2 whole numbers separated by a comma. |
| Value Range | 0, 200–2000 (Hz) (0: No tone) |
| Default Value | 480,620 |
| Web User Interface Reference | Tone Frequencies |

BUSY_TONE_GAIN

| | |
|----------------------|----------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the gain, in decibels, of the busy tone. |
| Value Range | -24–24 (dB) |
| Default Value | 0 |

BUSY_TONE_RPT

| | |
|----------------------|----------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether the busy tone is repeated. |
| Value Range | 0–1 – 0: No Repeat – 1: Repeat |
| Default Value | 1 |

BUSY_TONE_TIMING

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the pattern, in milliseconds, of busy tones using up to 10 whole numbers (off 1, on 1, off 2, on 2...) separated by commas. |
| Note | <ul style="list-style-type: none"> It is recommended that you set a value of 60 milliseconds or more for the first value (off 1). |
| Value Range | 0–16000 (msec) (0: Continuous) |
| Note | <ul style="list-style-type: none"> Avoid setting 1–50 for any of the values. |
| Default Value | 60,500,440 |
| Web User Interface Reference | Tone Timings |

REORDER_TONE_FRQ

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the dual-tone frequencies, in hertz, of reorder tones using 2 whole numbers separated by a comma. |
| Value Range | 0, 200–2000 (Hz) (0: No tone) |
| Default Value | 480,620 |
| Web User Interface Reference | Tone Frequencies |

REORDER_TONE_GAIN

| | |
|---------------------|-------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the gain, in decibels, of the reorder tone. |
| Value Range | -24–24 (dB) |

4.34 Tone Settings

| | |
|---------------|---|
| Default Value | 0 |
|---------------|---|

REORDER_TONE_RPT

| | |
|---------------|-------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether the reorder tone is repeated. |
| Value Range | 0–1 – 0: No Repeat – 1: Repeat |
| Default Value | 1 |

REORDER_TONE_TIMING

| | |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the pattern, in milliseconds, of reorder tones using up to 10 whole numbers (off 1, on 1, off 2, on 2...) separated by commas. Note <ul style="list-style-type: none">It is recommended that you set a value of 60 milliseconds or more for the first value (off 1). |
| Value Range | 0–16000 (msec) (0: Continuous) Note <ul style="list-style-type: none">Avoid setting 1–50 for any of the values. |
| Default Value | 60,250,190 |
| Web User Interface Reference | Tone Timings |

RINGBACK_TONE_FRQ

| | |
|------------------------------|--------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the dual-tone frequencies, in hertz, of ringback tones using 2 whole numbers separated by a comma. |
| Value Range | 0, 200–2000 (Hz) (0: No tone) |
| Default Value | 440,480 |
| Web User Interface Reference | Tone Frequencies |

RINGBACK_TONE_GAIN

| | |
|---------------|--------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the gain, in decibels, of the ringback tone. |
| Value Range | -24–24 (dB) |
| Default Value | 0 |

RINGBACK_TONE_RPT

| | |
|--------------|---------|
| Value Format | INTEGER |
|--------------|---------|

| | |
|----------------------|--------------------------------------------------|
| Description | Specifies whether the ringback tone is repeated. |
| Value Range | 0–1 – 0: No Repeat – 1: Repeat |
| Default Value | 1 |

RINGBACK_TONE_TIMING

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the pattern, in milliseconds, of ringback tones using up to 10 whole numbers (off 1, on 1, off 2, on 2...) separated by commas. Note <ul style="list-style-type: none">• It is recommended that you set a value of 60 milliseconds or more for the first value (off 1). |
| Value Range | 0–16000 (msec) (0: Continuous) Note <ul style="list-style-type: none">• Avoid setting 1–50 for any of the values. |
| Default Value | 60,2000,3940 |
| Web User Interface Reference | Tone Timings |

CW_TONE1_FRQ

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the frequency, in hertz, of call waiting tone 1. |
| Value Range | 0 (0: No tone) 220,233,247,262,277,294,311,330,349,370,392,415,440,466,494, 523,554,587,622,659,698,740,784,831,880,932,988,1047,1109, 1175,1245,1319,1397,1480,1568,1661,1760,1865,1976 (Hz) |
| Default Value | 392 |

HOLD_TONE_FRQ

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the dual-tone frequencies, in hertz, of the hold tone using 2 whole numbers separated by a comma. |
| Value Range | 0, 200–2000 (Hz) (0: No tone) |
| Default Value | 425 |

HOLD_TONE_GAIN

| | |
|----------------------|----------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the gain, in decibels, of the hold tone. |
| Value Range | -24–24 (dB) |
| Default Value | 0 |

BELL_CORE_PATTERN1_TIMING

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the cadence, in milliseconds, of pattern ID 1, described in the LSSGR, GR-506-CORE, "Signaling for Analog Interfaces" section 14, using up to 8 whole numbers (on 1, off 1, on 2, off 2...) separated by commas. |
| Value Range | 0–5000 (msec) (0: Continuous) |
| | <p>Note</p> <ul style="list-style-type: none"> Avoid setting 1–50 for any of the values. |
| Default Value | 2000,4000 |

BELL_CORE_PATTERN2_TIMING

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the cadence, in milliseconds, of pattern ID 2, described in the LSSGR, GR-506-CORE, "Signaling for Analog Interfaces" section 14, using up to 8 whole numbers (on 1, off 1, on 2, off 2...) separated by commas. |
| Value Range | 0–5000 (msec) (0: Continuous) |
| | <p>Note</p> <ul style="list-style-type: none"> Avoid setting 1–50 for any of the values. |
| Default Value | 800,400,800,4000 |

BELL_CORE_PATTERN3_TIMING

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the cadence, in milliseconds, of pattern ID 3, described in the LSSGR, GR-506-CORE, "Signaling for Analog Interfaces" section 14, using up to 8 whole numbers (on 1, off 1, on 2, off 2...) separated by commas. |
| Value Range | 0–5000 (msec) (0: Continuous) |
| | <p>Note</p> <ul style="list-style-type: none"> Avoid setting 1–50 for any of the values. |
| Default Value | 400,200,400,200,800,4000 |

BELL_CORE_PATTERN4_TIMING

| | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the cadence, in milliseconds, of pattern ID 4, described in the LSSGR, GR-506-CORE, "Signaling for Analog Interfaces" section 14, using up to 8 whole numbers (on 1, off 1, on 2, off 2...) separated by commas. |

| | |
|----------------------|---------------------------------------------------------------------------------------------|
| Value Range | 0–5000 (msec) (0: Continuous) |
| Note | <ul style="list-style-type: none"> Avoid setting 1–50 for any of the values. |
| Default Value | 300,200,1000,200,300,4000 |

BELL_CORE_PATTERN5_TIMING

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the cadence, in milliseconds, of pattern ID 5, described in the LSSGR, GR-506-CORE, "Signaling for Analog Interfaces" section 14, using up to 8 whole numbers (on 1, off 1, on 2, off 2...) separated by commas. |
| Value Range | 0–5000 (msec) (0: Continuous) |
| Note | <ul style="list-style-type: none"> Avoid setting 1–50 for any of the values. |
| Default Value | 500 |

KEY_PAD_TONE_HSy

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | INTEGER |
| Description | Specifies whether a tone is heard in response to key presses. |
| Value Range | <ul style="list-style-type: none"> 0: Off 1: On |
| Default Value | 1 |

4.35 Call Control Settings

OUTGOING_CALL_LINE_HSy

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | Comma-separated Integer |
| Description | Specifies which lines (1–16) can be seized when going off-hook to make a call for each handset, using 16 whole numbers (0 or 1) separated by commas. This setting is available only when "MULTI_NUMBER_ENABLE" is set to enable. |
| Value Range | <ul style="list-style-type: none"> 0: Disable 1: Enable The format must be "x,x,x,x,x,x,x,x,x,x,x,x,x,x,x" (x: line numbers 1 to 16 starting from the left). |
| Default Value | 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1 |

| | |
|-------------------------------------|------------------|
| Web User Interface Reference | Line Number 1–16 |
|-------------------------------------|------------------|

DEFAULT_LINE_SELECT_HS_y

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies which lines (1–16) can be seized when going off-hook to make a call for each handset, using 16 whole numbers (0 or 1) separated by commas. This setting is available only when "MULTI_NUMBER_ENABLE" is set to enable. |
| Value Range | <ul style="list-style-type: none"> • 0: Disable • 1: Enable The format must be "x,x,x,x,x,x,x,x,x,x,x,x,x,x,x,x" (x: line numbers 1 to 16 starting from the left). "1" must be specified only once as a line that can be seized automatically when going off-hook in this format. |
| Default Value | 1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0 |
| Web User Interface Reference | Default |

INCOMING_CALL_GROUP_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the handset (1–16) that calls will arrive at for each line. This setting is available only when "MULTI_NUMBER_ENABLE" is set to enable. |
| Value Range | <ul style="list-style-type: none"> • 0: Disable • 1: Enable The format must be "x,x,x,x,x,x,x,x,x,x,x,x,x,x,x,x" (x: handset number 1 to 16 starting from the left). |
| Default Value | 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1 |
| Web User Interface Reference | Line 1–16 Phone Number Handset Number 1–16 |

PAGING_ENABLE_HANDSET_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Select the handset (1–16) that calls will arrive (auto answer) at for each line. <ul style="list-style-type: none"> • Paging • Click to xx |

| | |
|-------------------------------------|--------|
| Value Range | 1–16 |
| Default Value | 1 |
| Web User Interface Reference | Paging |

[ANONYMOUS_CALL_ENABLE_n](#)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to make calls without transmitting the phone number to the called party. |
| Value Range | <ul style="list-style-type: none"> • y: Enable anonymous call • n: Disable |
| Default Value | n |
| Web User Interface Reference | Enable Anonymous Call |

[BLOCK_ANONYMOUS_CALL_ENABLE_n](#)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to accept or reject the incoming call without the called party's phone number. |
| Value Range | <ul style="list-style-type: none"> • y: Enable anonymous call block • n: Disable |
| Default Value | n |
| Web User Interface Reference | Enable Block Anonymous Call |

[HOTLINE_ENABLE_HSy](#)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable the Hot line feature. |
| Value Range | <ul style="list-style-type: none"> • y: Enable • n: Disable |
| Default Value | n |
| Web User Interface Reference | Handset 1–16 Enable |

[HOTLINE_NUMBER_HSy](#)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|--------|
| Value Format | STRING |
|---------------------|--------|

4.35 Call Control Settings

| | |
|-------------------------------------|--------------------------------|
| Description | Specifies the Hot line number. |
| Value Range | Max. 32 characters |
| Default Value | Empty string |
| Web User Interface Reference | Handset 1–16 Hotline Number |

HOTLINE_TIM

| | |
|-------------------------------------|-----------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies a time after off hook for Hot line. |
| Value Range | 0–10 (s) |
| Default Value | 2 |
| Web User Interface Reference | Hotline Delay |

DISPLAY_NAME_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | STRING |
| Description | Specifies the name to display as the caller on the other party's phone when you make a call. |
| Value Range | Max. 24 characters |
| | Note <ul style="list-style-type: none">• You can use Unicode characters for this setting. |
| Default Value | Empty string |
| Web User Interface Reference | Display Name |

VM_SUBSCRIBE_ENABLE

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to send the SUBSCRIBE request to a voice mail server. |
| | Note <ul style="list-style-type: none">• Your phone system must support voice mail. |
| Value Range | <ul style="list-style-type: none">• y: Send the SUBSCRIBE request• n: Do not send the SUBSCRIBE request |
| Default Value | N |
| Web User Interface Reference | Send SUBSCRIBE to Voice Mail Server |

VM_NUMBER_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | STRING |

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| Description | Specifies the defined name of a voice mail box. |
| Note | <ul style="list-style-type: none"> Your phone system must support voice mail. |
| Value Range | Max. 32 characters |
| Default Value | Empty string |
| Web User Interface Reference | Voice Mail Access Number |

VM_SUBSCRIBE_SPECIFIC_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the defined name of a voice mail box. |
| Value Range | Max. 32 characters |
| Default Value | Empty string |

DIAL_PLAN_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies a dial format, such as specific phone numbers, that control which numbers can be dialed or how to handle the call when making a call. For details, see 5.3 Dial Plan . |
| Value Range | Max. 1000 characters |
| Default Value | Empty string |
| Web User Interface Reference | Dial Plan (max 1000 columns) |

DIAL_PLAN_NOT_MATCH_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable dial plan filtering so that a call is not made when the dialed number does not match any of the dial formats specified in " DIAL_PLAN_n ". |

4.35 Call Control Settings

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• y: Enable dial plan filtering• n: Disable dial plan filtering |
| | Note <ul style="list-style-type: none">• If set to "y", the dialed number will not be sent to the line when the number dialed by the user does not match any of the dial formats specified in the dial plan.• If set to "n", the dialed number will be sent to the line, even if the number dialed by the user does not match any of the dial formats specified in the dial plan. |
| Default Value | N |
| Web User Interface Reference | Call Even If Dial Plan Does Not Match |

MACRODIGIT_TIM

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the length of time, in seconds, that the unit waits when a "T" or "t" has been entered in the dial plan. |
| Value Range | 1–15 |
| Default Value | 5 |
| Web User Interface Reference | Timer for Dial Plan |

INTERNATIONAL_ACCESS_CODE

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the number to be shown in the place of the first "+" symbol when the phone number for incoming international calls contains "+". |
| Value Range | Max. 8 characters (consisting of 0–9, *, and #) |
| | Note <ul style="list-style-type: none">• No other characters are allowed. |
| Default Value | Empty string |
| Web User Interface Reference | International Call Prefix |

COUNTRY_CALLING_CODE

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the country/area calling code to be used for comparative purposes when dialing a number from the incoming call log that contains a "+" symbol. |
| Value Range | Max. 8 characters (consisting of 0–9) |
| Default Value | Empty string |
| Web User Interface Reference | Country Calling Code |

NATIONAL_ACCESS_CODE

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | When dialing a number from the incoming call log that contains a "+" symbol and the country calling code matches, the country calling code is removed and the national access code is added. |
| Value Range | Max. 8 characters (consisting of 0–9, *, and #) |
| Default Value | Empty string |
| Web User Interface Reference | National Access Code |

IDLE_SOFT_KEY_A

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the soft key (A) during IDLE state for KX-TPA60/KX-TPA65/KX-TPA68/KX-UDT121/KX-UDT131. |
| Value Range | <ul style="list-style-type: none"> • 1: Phonebook • 2: Menu • 3: Outgoing Call Log • 4: Incoming Call Log • 5: Redial • 6: Page • 7: Intercom |
| Note | <p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> – Page: MPAGE_FUNCKEY_ENABLE – Intercom: INTERCOM_ENABLE |
| Default Value | 1 |
| Web User Interface Reference | 3.4.7.1 Soft Key during IDLE Status -TPA60/65 Soft Key A (Left) |

IDLE_SOFT_KEY_B

| | |
|---------------------|--------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the soft key (B) during IDLE state for KX-TPA60/KX-TPA65/KX-TPA68/KX-UDT121/KX-UDT131. |

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • 1: Phonebook • 2: Menu • 3: Outgoing Call Log • 4: Incoming Call Log • 5: Redial • 6: Page • 7: Intercom <p>Note</p> <p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> – Page: MPAGE_FUNCKEY_ENABLE – Intercom: INTERCOM_ENABLE |
| Default Value | 2 |
| Web User Interface Reference | 3.4.7.1 Soft Key during IDLE Status -TPA60/65 Soft Key B (Center) |

IDLE_SOFT_KEY_C

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the soft key (C) during IDLE state for KX-TPA60/KX-TPA65/KX-TPA68/KX-UDT121/KX-UDT131. |
| Value Range | <ul style="list-style-type: none"> • 1: Phonebook • 2: Menu • 3: Outgoing Call Log • 4: Incoming Call Log • 5: Redial • 6: Page • 7: Intercom <p>Note</p> <p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> – Page: MPAGE_FUNCKEY_ENABLE – Intercom: INTERCOM_ENABLE |
| Default Value | 3 |
| Web User Interface Reference | 3.4.7.1 Soft Key during IDLE Status -TPA60/65 Soft Key C (Right) |

IDLE_SOFT_KEY_A_UX1 (For KX-TPA70/KX-TPA73)

| | |
|---------------------|---------|
| Value Format | INTEGER |
|---------------------|---------|

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the soft key (A) during IDLE state for KX-TPA70/KX-TPA73. |
| Value Range | <ul style="list-style-type: none"> • 1: Phonebook • 2: Menu • 3: Outgoing Call Log • 4: Incoming Call Log • 5: Call History • 6: Redial • 7: Page • 8: Intercom Call |
| | <p>Note</p> <p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> – Page: MPAGE_FUNCKEY_ENABLE – Intercom: INTERCOM_ENABLE |
| Default Value | 1 |
| Web User Interface Reference | 3.4.7.2 Soft Key during IDLE Status -TPA70/73 Soft Key A (Left) |

[IDLE_SOFT_KEY_B_UX1 \(For KX-TPA70/KX-TPA73\)](#)

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the soft key (B) during IDLE state for KX-TPA70/KX-TPA73. |
| Value Range | <ul style="list-style-type: none"> • 1: Phonebook • 2: Menu • 3: Outgoing Call Log • 4: Incoming Call Log • 5: Call History • 6: Redial • 7: Page • 8: Intercom Call |
| | <p>Note</p> <p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> – Page: MPAGE_FUNCKEY_ENABLE – Intercom: INTERCOM_ENABLE |
| Default Value | 2 |
| Web User Interface Reference | 3.4.7.2 Soft Key during IDLE Status -TPA70/73 Soft Key B (Center) |

IDLE_SOFT_KEY_C_UX1 (For KX-TPA70/KX-TPA73)

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the soft key (C) during IDLE state for KX-TPA70/KX-TPA73. |
| Value Range | <ul style="list-style-type: none"> • 1: Phonebook • 2: Menu • 3: Outgoing Call Log • 4: Incoming Call Log • 5: Call History • 6: Redial • 7: Page • 8: Intercom Call |
| | <p>Note</p> <p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> – Page: MPAGE_FUNCKEY_ENABLE – Intercom: INTERCOM_ENABLE |
| Default Value | 3 |
| Web User Interface Reference | 3.4.7.2 Soft Key during IDLE Status -TPA70/73 Soft Key C (Right) |

ADMIN_ABILITY_ENABLE_HSy

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies admin rights for each handset. |
| | <p>Note</p> <p>If you attempt to configure System Settings without enabling admin rights, an error will occur and configuration will not be possible.</p> |
| Value Range | <ul style="list-style-type: none"> • y: Admin • n: Non Admin |
| Default Value | y |
| Web User Interface Reference | Enable Admin Ability |

HANDSET_NAME_HSy

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | STRING |

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the handset name. |
| Value Range | Max. 16 characters |
| Default Value | <pre>HANDSET_NAME_HS1="Handset 1" HANDSET_NAME_HS2="Handset 2" HANDSET_NAME_HS3="Handset 3" HANDSET_NAME_HS4="Handset 4" HANDSET_NAME_HS5="Handset 5" HANDSET_NAME_HS6="Handset 6" HANDSET_NAME_HS7="Handset 7" HANDSET_NAME_HS8="Handset 8" HANDSET_NAME_HS9="Handset 9" HANDSET_NAME_HS10="Handset 10" HANDSET_NAME_HS11="Handset 11" HANDSET_NAME_HS12="Handset 12" HANDSET_NAME_HS13="Handset 13" HANDSET_NAME_HS14="Handset 14" HANDSET_NAME_HS15="Handset 15" HANDSET_NAME_HS16="Handset 16"</pre> |
| Web User Interface Reference | Handset Name |

EMERGENCY_CALLx

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the emergency number. (Up to 5 emergency numbers) |
| Value Range | Max. 32 characters (except &, ', :, ;, <, >) |
| Default Value | Empty string |
| Web User Interface Reference | 1–5 |

CALL_REJECTIONx_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|---------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the rejected number per line. (Up to 20 rejected numbers) |
| Value Range | Max. 32 characters (except &, ', :, ;, <, >) |
| Default Value | Empty string |
| Web User Interface Reference | 1–20 |

CLICKTO_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|---------|
| Value Format | BOOLEAN |
|---------------------|---------|

4.35 Call Control Settings

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------|
| Description | Specifies whether to enable or disable Click to Dial/Answer/Hold functions. |
| Value Range | <ul style="list-style-type: none">• y: Enable• n: Disable |
| Default Value | n |
| Web User Interface Reference | Enable Click to Call |

CALLPARK_NOTIFICATION_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to respond to call park notifications from the server. |
| Value Range | <ul style="list-style-type: none">• y: Enable• n: Disable |
| Default Value | n |
| Web User Interface Reference | Enable Call Park Notification |

SHARED_CALL_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the Shared Call feature of the SIP server, which is used to share one line among the units. |
| Note | <ul style="list-style-type: none">• Availability depends on your phone system. |
| Value Range | <ul style="list-style-type: none">• y: Enable shared call• n: Disable shared call |
| Note | <ul style="list-style-type: none">• If set to "y", the SIP server will control the line by using a shared-call signaling method.• If set to "n", the SIP server will control the line by using a standard signaling method. |
| Default Value | n |
| Web User Interface Reference | Enable Shared Call |

SHARED_STOP_LINE_SEIZE

| | |
|---------------------|--------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to stop seizing the Shared Call line at the unit side. |

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • Y: Stop seizing the line • N: Seize the line |
| Default Value | N |

FWD_DND_SYNCHRO_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to synchronize the Do Not Disturb and Call Forward settings, configured via the Web user interface or phone user interface, between the unit and the portal server that is provided by your phone system dealer/service provider. |
| Note | <ul style="list-style-type: none"> Even if you specify "Y", this feature may not function properly if your phone system does not support it. Before you configure this setting, consult your phone system dealer/service provider. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable Do Not Disturb/Call Forward synchronization • N: Disable Do Not Disturb/Call Forward synchronization |
| Default Value | N |
| Web User Interface Reference | Enable Key Synchronization |

MOH_SERVER_URI_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|-----------------------------------------|
| Value Format | STRING |
| Description | Specifies MoH server URI for each line. |
| Value Range | Max. 384 characters |
| Default Value | Empty string |
| Web User Interface Reference | MoH Server URI |

FWD_DND_CONTROL_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the telephone for FWD/DND. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | Y |

FWD_DND_SYNCHRO_MODE

| | |
|---------------------|----------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the mode of FWD/DND synchronizing with server. |

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • 1: as feature event • 2: Panasonic original • 3: Entel |
| Default Value | 1 |

HOLD_AND_CALL_ENABLE

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether making new call after holding the call or not. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable (Hold and Call) • N: Disable (Hold) |
| Default Value | N |

AUTO_CALL_HOLD

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether calls are disconnected or held when another line is selected while having a conversation. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable Auto Call Hold • N: Disable Auto Call Hold |
| Default Value | Y |

SIP_RESPONSE_CODE_DND

| | |
|----------------------|-----------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the response code when a call is received in Do Not Disturb mode. |
| Value Range | 400–699 |
| Default Value | 403 |

SIP_RESPONSE_CODE_CALL_REJECT

| | |
|----------------------|------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the response code when a call is rejected. |
| Value Range | 400–699 |
| Default Value | 603 |

CW_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|---------------------|------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether automatic call waiting is enabled. |

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> Y: Enable Call Waiting N: Disable Call Waiting |
| Default Value | Y |
| Web User Interface Reference | Enable Call Waiting |

RETURN_VOL_SET_DEFAULT_ENABLE

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether the volume is returned to its default setting after each call. |
| Value Range | <ul style="list-style-type: none"> Y: Volume returns to the default setting after each call N: Volume does not change after each call |
| Default Value | N |

CONFERENCE_SERVER_URI

| | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI for a conference server, which consists of "sip:", a user part, the "@" symbol, and a host part, for example, "sip:conference@example.com". |
| Note | <ul style="list-style-type: none"> Availability depends on your phone system. |
| Value Range | Max. 256 characters (except ", &, ', ;, <, >, and space) |
| Default Value | Empty string |
| Web User Interface Reference | Conference Server URI |

PRIVACY_MODE_n

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". | |
| Value Format | BOOLEAN |
| Description | Specifies whether to enable privacy. |
| Value Range | <ul style="list-style-type: none"> Y: Enable (privacy on) N: Disable (privacy off) |
| Note | <ul style="list-style-type: none"> If set to "N", allow call information to be shared with other handsets and barging in from other handsets. |
| Default Value | Y |

PARALLEL_HSNOm

| |
|----------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters". |
|----------------------------------------------------------------------------------------------------------------------------------------------|

4.35 Call Control Settings

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | <p>m=1-16 Specifies the handset number for the paired handset (KX-TPA60/KX-TPA70/KX-TPA73) when connected in parallel. "m" refers to the master handset (KX-TPA65/KX-TPA68). For details, see 5.6 Pairing (Parallel Mode).</p> <p>Note</p> <ul style="list-style-type: none">• Be sure to designate the KX-TPA65/KX-TPA68 as the master handset and the KX-TPA60/KX-TPA70/KX-TPA73 as the slave handset. Paired handsets cannot be configured for other pairings. |
| Value Range | 0: Off, 1–16 (handset number) |
| Default Value | 0 |
| Web User Interface Reference | Slave Handset Number |

PARALLEL_MODEm

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | <p>m=1-16 Specifies the off-hook behavior of the other handset when one handset is in use. For details, see 5.6 Pairing (Parallel Mode).</p> |
| Value Range | <ul style="list-style-type: none">• 0: Busy• 1: Take over call |
| Default Value | 1 |
| Web User Interface Reference | Mode |

FWD_SYNCHRO_FORCE_DISABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to synchronize the Call Forward settings in "FWD_DND_SYNCHRO_ENABLE_n". |
| Value Range | <ul style="list-style-type: none">• x: Do not synchronize• n: Synchronize |
| Default Value | N |

CONF_SERVER_HOLD_ENABLE

| | |
|---------------------|---------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to hold the call when connecting an N-party conference. |

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> Y: Hold the call N: Do not hold the call |
| Default Value | N |

DIALPLAN_REPLACE_LOG_ENABLE

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to log the number after it was modified by the Dial Plan or the number as it was input. |
| Value Range | <ul style="list-style-type: none"> Y: Log the number in the outgoing call log after it was modified by the Dial Plan N: Log the number in the outgoing call log as it was input |
| Default Value | Y |

DIALPLAN_MEMORY_DIAL_ENABLE

| | |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable Dial Plan processing for memory dialing. |
| Value Range | <ul style="list-style-type: none"> Y: Enable Dial Plan N: Disable |
| Default Value | Y |

SIGNALING_AUTO_ANS_ENABLE_n

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see "4.2.1 Configuration File Parameters".

| | |
|----------------------|-----------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable paging mode with "Click to Dial". |
| Value Range | <ul style="list-style-type: none"> Y: Enable N: Disable |
| Default Value | Y |

TALKING_SOFT_KEY_A

| | |
|---------------------|------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the display icon of soft key A during a call for KX-TPA60/KX-TPA65/KX-TPA68/KX-UDT121/KX-UDT131. |

4.35 Call Control Settings

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• 0: Original• 1: Mute• 2: Menu• 3: Blind^{*1}• 4: Redial• 5: Conference• 6: Flash/Recall• 7: Incoming Log• 8: Outgoing Log• 9: Phonebook• 10: Call Park^{*2}• 11: Intercom^{*3}• 12: Pause^{*4}• 13: Noise Reduction (KX-TPA60/KX-TPA68)• 14: Private Hold <p>^{*1} "Blind" is not displayed if BLIND_TRANSFER_ENABLE="N". If TALKING_SOFT_KEY_C is not configured and BLIND_TRANSFER_ENABLE="Y", "Blind" is displayed on Soft Key C.</p> <p>^{*2} "Call Park" is not displayed if CALLPARK_KEY_ENABLE="N"</p> <p>^{*3} "Intercom" is not displayed if INTERCOM_ENABLE="N"</p> <p>^{*4} "Pause" is not displayed if PAUSE_INPUT_ENABLE="N"</p> |
| Default Value | 0 |

TALKING_SOFT_KEY_B

| | |
|---------------------|------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the display icon of soft key B during a call for KX-TPA60/KX-TPA65/KX-TPA68/KX-UDT121/KX-UDT131. |

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • 0: Original • 1: Mute • 2: Menu • 3: Blind^{*1} • 4: Redial • 5: Conference • 6: Flash/Recall • 7: Incoming Log • 8: Outgoing Log • 9: Phonebook • 10: Call Park^{*2} • 11: Intercom^{*3} • 12: Pause^{*4} • 13: Noise Reduction (KX-TPA60/KX-TPA68) • 14: Private Hold <p>^{*1} "Blind" is not displayed if BLIND_TRANSFER_ENABLE="N". If TALKING_SOFT_KEY_C is not configured and BLIND_TRANSFER_ENABLE="Y", "Blind" is displayed on Soft Key C.</p> <p>^{*2} "Call Park" is not displayed if CALLPARK_KEY_ENABLE="N"</p> <p>^{*3} "Intercom" is not displayed if INTERCOM_ENABLE="N"</p> <p>^{*4} "Pause" is not displayed if PAUSE_INPUT_ENABLE="N"</p> |
| Default Value | 0 |

TALKING_SOFT_KEY_C

| | |
|---------------------|------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the display icon of soft key C during a call for KX-TPA60/KX-TPA65/KX-TPA68/KX-UDT121/KX-UDT131. |

4.35 Call Control Settings

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• 0: Original• 1: Mute• 2: Menu• 3: Blind^{*1}• 4: Redial• 5: Conference• 6: Flash/Recall• 7: Incoming Log• 8: Outgoing Log• 9: Phonebook• 10: Call Park^{*2}• 11: Intercom^{*3}• 12: Pause^{*4}• 13: Noise Reduction (KX-TPA60/KX-TPA68)• 14: Private Hold^{*5} <p>^{*1} "Blind" is not displayed if BLIND_TRANSFER_ENABLE="N". If TALKING_SOFT_KEY_C is not configured and BLIND_TRANSFER_ENABLE="Y", "Blind" is displayed on Soft Key C.</p> <p>^{*2} "Call Park" is not displayed if CALLPARK_KEY_ENABLE="N"</p> <p>^{*3} "Intercom" is not displayed if INTERCOM_ENABLE="N"</p> <p>^{*4} "Pause" is not displayed if PAUSE_INPUT_ENABLE="N"</p> <p>^{*5} (For KX-TPA60/KX-TPA65) "Private Hold" is not displayed if PRIVATE_HOLD_ENABLE="N". If TALKING_SOFT_KEY_C is not configured and PRIVATE_HOLD_ENABLE="Y", "Private Hold" is displayed on Soft Key C. If TALKING_SOFT_KEY_C is not configured, BLIND_TRANSFER_ENABLE="Y" and PRIVATE_HOLD_ENABLE="Y", "Private Hold" is displayed on Soft Key C.</p> |
| Default Value | 0 |

TALKING_SOFT_KEY_A_UX1 (For KX-TPA70/KX-TPA73)

| | |
|---------------------|-------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the display icon of soft key A during a call for KX-TPA70/KX-TPA73. |

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • 0: Original • 1: Mute • 2: Menu • 3: Blind Transfer^{*1} • 4: Transfer • 5: Redial • 6: Conference • 7: Flash/Recall • 8: Incoming log • 9: Outgoing log • 10: Call History • 11: Phonebook • 12: Call park^{*2} • 13: Intercom^{*3} • 14: Pause^{*4} • 15: Noise Reduction • 16: Private Hold^{*5} <p>^{*1} "Blind" is not displayed if BLIND_TRANSFER_ENABLE="N" If TALKING_SOFT_KEY_C_UX1 is not configured and BLIND_TRANSFER_ENABLE="Y", "Blind" is displayed on Soft Key C.</p> <p>^{*2} "Call Park" is not displayed if CALLPARK_KEY_ENABLE="N"</p> <p>^{*3} "Intercom" is not displayed if INTERCOM_ENABLE="N"</p> <p>^{*4} "Pause" is not displayed if PAUSE_INPUT_ENABLE="N"</p> <p>^{*5} "Private Hold" is not displayed if PRIVATE_HOLD_ENABLE="N"</p> |
| Default Value | 0 |

TALKING_SOFT_KEY_B_UX1 (For KX-TPA70/KX-TPA73)

| | |
|---------------------|-------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the display icon of soft key B during a call for KX-TPA70/KX-TPA73. |

4.35 Call Control Settings

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• 0: Original• 1: Mute• 2: Menu• 3: Blind Transfer^{*1}• 4: Transfer• 5: Redial• 6: Conference• 7: Flash/Recall• 8: Incoming log• 9: Outgoing log• 10: Call History• 11: Phonebook• 12: Call park^{*2}• 13: Intercom^{*3}• 14: Pause^{*4}• 15: Noise Reduction• 16: Private Hold^{*5} <p>^{*1} "Blind" is not displayed if BLIND_TRANSFER_ENABLE="N" If TALKING_SOFT_KEY_C_UX1 is not configured and BLIND_TRANSFER_ENABLE="Y", "Blind" is displayed on Soft Key C.</p> <p>^{*2} "Call Park" is not displayed if CALLPARK_KEY_ENABLE="N"</p> <p>^{*3} "Intercom" is not displayed if INTERCOM_ENABLE="N"</p> <p>^{*4} "Pause" is not displayed if PAUSE_INPUT_ENABLE="N"</p> <p>^{*5} "Private Hold" is not displayed if PRIVATE_HOLD_ENABLE="N"</p> |
| Default Value | 0 |

TALKING_SOFT_KEY_C_UX1 (For KX-TPA70/KX-TPA73)

| | |
|---------------------|-------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the display icon of soft key C during a call for KX-TPA70/KX-TPA73. |

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • 0: Original • 1: Mute • 2: Menu • 3: Blind Transfer^{*1} • 4: Transfer • 5: Redial • 6: Conference • 7: Flash/Recall • 8: Incoming log • 9: Outgoing log • 10: Call History • 11: Phonebook • 12: Call park^{*2} • 13: Intercom^{*3} • 14: Pause^{*4} • 15: Noise Reduction • 16: Private Hold^{*5} <p>^{*1} "Blind" is not displayed if BLIND_TRANSFER_ENABLE="N" If TALKING_SOFT_KEY_C_UX1 is not configured and BLIND_TRANSFER_ENABLE="Y", "Blind" is displayed on Soft Key C.</p> <p>^{*2} "Call Park" is not displayed if CALLPARK_KEY_ENABLE="N"</p> <p>^{*3} "Intercom" is not displayed if INTERCOM_ENABLE="N"</p> <p>^{*4} "Pause" is not displayed if PAUSE_INPUT_ENABLE="N"</p> <p>^{*5} "Private Hold" is not displayed if PRIVATE_HOLD_ENABLE="N"</p> |
| Default Value | 0 |

DISPLAY_VM_WITH_NUMBER

| | |
|----------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable displaying the number of unread voice messages. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | Y |

FWD_DND_MISSEDLOG_ENABLE

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the unit to save forwarded calls and rejected calls on a Missed Call log when "FWD/DND" feature is activated. |

4.35 Call Control Settings

| | |
|----------------------|------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none">• y: Enable• n: Disable |
| Default Value | y |

RETRIVE_TRANS_HOLD_OPER_CHANGE

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies the action for retrieving transfer-hold calls by pressing a Line key. Note <ul style="list-style-type: none">• The action for retrieving conference call on hold by pressing a Line key in the conference call sequence also follows this setting. |
| Value Range | <ul style="list-style-type: none">• y: Disconnect the current call• n: Follow the "AUTO_CALL_HOLD" setting |
| Default Value | n |

REMOVE_PREFIX_ENABLE

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable omitting "+" included in overseas telephone numbers when making or receiving a call. |
| Value Range | <ul style="list-style-type: none">• y: Enable• n: Disable |
| Default Value | n |

RECVBACK_RESPCODE_OUTOFRANGE

| | |
|----------------------|---------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the response code when the handset is out of range. |
| Value Range | 400–699 |
| Default Value | 404 |

PRIVACY_FLEXIBLE_MODE_n (For KX-TPA68)

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see 4.2.1 Configuration File Parameters | |
| Value Format | BOOLEAN |
| Description | Specifies whether to force the display and key control of the Line Notification function to depend on the setting of "OUTGOING_CALL_LINE_HS _y ". |

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Range | <ul style="list-style-type: none"> • Y: Force dependency • N: Do not force dependency <p>Note</p> <ul style="list-style-type: none"> • If "PRIVACY_MODE_n" is set to "N" If this setting is set to "Y", the Line Notification function is enabled for lines where "OUTGOING_CALL_LINE_HSY" is set to "1". If this setting is set to "N", the Line Notification function is enabled regardless of the "OUTGOING_CALL_LINE_HSY" setting. • If "PRIVACY_MODE_n" is set to "Y" The Line notification functions is disabled, regardless of any other settings. |
| Default Value | N |

PRIVACY_LEVEL_n (For KX-TPA68)

For details about parameter names that include lower-case letters (e.g., "_n", "y", "x", or "m"), see 4.2.1 Configuration File Parameters

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | Comma-separated Integer |
| Description | Specifies the level of display and key control for the Line Notification function for each line. |
| Value Range | <p>Specify this setting for 16 handsets, regardless of the actual registration status of the handsets. For example: PRIVACY_LEVEL_1=x,x,x,x,x,x,x,x,x,x,x,x,x,x,x (From the left, each x indicates the function level for handsets 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15 and 16 respectively.)</p> <p>Function level: 1–3 (Y: enabled, N: disabled)</p> <ul style="list-style-type: none"> • 1 = Y,N,N,N,N (only display is enabled) • 2 = Y,Y,Y,Y,N (all functions except barge-in are enabled) • 3 = Y,Y,Y,Y,Y (all functions are enabled) <p>The functions enabled/disabled in each function level correspond, from the left, to a,b,c,d,e below.</p> <ul style="list-style-type: none"> • a: Display • b: Make a call • c: Call pickup • d: Call hold retrieve • e: Barge-in |
| Default Value | 3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3 |

GROUP_CALL_REJECT_MODE

| | |
|---------------------|---------|
| Value Format | INTEGER |
|---------------------|---------|

4.36 Logging Settings

| | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Specifies the behavior when a handset rejects a grouped incoming call to the line. |
| Value Range | <ul style="list-style-type: none">• 0: Reject the incoming call at all grouped handsets• 1: Reject the incoming call at the handset that rejected it |
| Default Value | 1 |

4.36 Logging Settings

SYSLOG_ADDR

| | |
|----------------------|----------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the IP address or FQDN of Syslog server. |
| Value Range | Max. 256 characters |
| Default Value | Empty string |

SYSLOG_PORT

| | |
|----------------------|--------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port of Syslog server. |
| Value Range | 1–65535 |
| Default Value | 514 |

LOGGING_LEVEL_DNS

| | |
|----------------------|---------------------------------|
| Value Format | INTEGER |
| Description | Specifies the log level of DNS. |
| Value Range | 0–6 |
| Default Value | 0 |

LOGGING_LEVEL_NW1

| | |
|----------------------|----------------------------------|
| Value Format | INTEGER |
| Description | Specifies the log level of SNTP. |
| Value Range | 0–6 |
| Default Value | 0 |

LOGGING_LEVEL_FILE

| | |
|----------------------|----------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the log level of FILE downloading. |
| Value Range | 0–6 |
| Default Value | 6 |

LOGGING_LEVEL_SIP

| | |
|----------------------|---------------------------------|
| Value Format | INTEGER |
| Description | Specifies the log level of SIP. |
| Value Range | 0–6 |
| Default Value | 0 |

LOGGING_LEVEL_TR069

| | |
|----------------------|------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the log level of TR-069. |
| Value Range | 0–6 |
| Default Value | 0 |

LOGGING_LEVEL_STUN

| | |
|----------------------|----------------------------------|
| Value Format | INTEGER |
| Description | Specifies the log level of STUN. |
| Value Range | 0–6 |
| Default Value | 0 |

LOGGING_LEVEL_NW2

| | |
|----------------------|--------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the log level of Xsi, XML, XMPP, LDAP. |
| Value Range | 0–6 |
| Default Value | 0 |

LOGGING_LEVEL_CFGPARSE

| | |
|----------------------|-------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the log level of configuration parse. |
| Value Range | 0–6 |
| Default Value | 0 |

SYSLOG_OUT_START

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable or disable exporting of the Application Log. |
| Value Range | <ul style="list-style-type: none"> • y: Enable export to syslog • n: Disable |
| Default Value | n |

SYSLOG_TRANSPORT

| | |
|----------------------|------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the protocol for syslog. |
| Value Range | <ul style="list-style-type: none"> • 0: UDP • 1: TLS |
| Default Value | 0 |

SYSLOG_TLS_VERIFY

| | |
|----------------------|-------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to verify the TLS certificate when "SYSLOG_TRANSPORT" is set to "1". |
| Value Range | <ul style="list-style-type: none"> • 0: Do not verify • 1: Verify |
| Default Value | 0 |

SYSLOG_ROOT_CERT_PATH

| | |
|----------------------|----------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URL where the root certificate is stored for authenticating the syslog server. |
| Value Range | Max. 384 characters |
| Default Value | Empty string |

SYSLOG_CLIENT_CERT_PATH

| | |
|----------------------|------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URL where the client certificate is stored for authenticating the syslog client. |
| Value Range | Max. 384 characters |
| Default Value | Empty string |

SYSLOG_PKEY_PATH

| | |
|----------------------|------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URL where the client certificate is stored for authenticating the syslog client. |
| Value Range | Max. 384 characters |
| Default Value | Empty string |

DECT_MONITORING_CYCLIC_INVL

| | |
|---------------------|---------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the interval, in minutes, for monitoring the DECT status. |

| | |
|----------------------|---------------------------|
| Value Range | 0, 30-720 (0: Disable) |
| Default Value | 0 |

DECT_MONITORING_OUTPUT

| | |
|----------------------|---------------------------------------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable outputting the result of DECT monitoring as Syslog. |
| Value Range | <ul style="list-style-type: none"> • Y: Enable • N: Disable |
| Default Value | Y |

DECT_MONITORING_OPTION

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies which DECT Monitoring option is output as the syslog. |
| Value Range | <p>Format: X1,X2,X3,X4,X5,X6,X7,X8 (Comma-separated integer) X1: Option 1, X2: Option 2...X8: Option 8 (X1, X2...X8=0 or 1) Option 1: The number of the registered base unit, Option 2... Option 8: Reserved</p> <p>0: Disable 1: Enable</p> <p>[Example] 1,0,0,0,0,0,0,0 In this setting, number of the registered base unit is added to the syslog of DECT Monitoring.</p> |
| Default Value | 0,0,0,0,0,0,0,0 |

DECT_MONITORING_SERVER_DEST

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the server to output the DECT monitoring information to. |
| Value Range | <ul style="list-style-type: none"> • 0: Output to the syslog server • 1: Output to the DECT monitoring server |
| Default Value | 0 |

DECT_MONITORING_SERVER_ADDR

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | <p>Specifies the IP address or FQDN of the server to output the DECT monitoring information to.</p> <p>Note</p> <ul style="list-style-type: none"> • This setting is available only when "DECT_MONITORING_SERVER_DEST" is set to "1". |

4.36 Logging Settings

| | |
|----------------------|---------------------|
| Value Range | Max. 256 characters |
| Default Value | Empty string |

DECT_MONITORING_SERVER_PORT

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port number of the server to output the DECT monitoring information to. |
| Note | <ul style="list-style-type: none">This setting is available only when "DECT_MONITORING_SERVER_DEST" is set to "1". |
| Value Range | 1-65535 |
| Default Value | 514 |

DECT_MONITORING_TRANSPORT

| | |
|----------------------|----------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the protocol to use to output the DECT monitoring information to the server. |
| Value Range | <ul style="list-style-type: none">0: UDP1: TLS |
| Default Value | 0 |

DECT_MONITORING_TLS_VERIFY

| | |
|----------------------|-----------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies whether to verify with TLS when outputting the DECT monitoring information to the server. |
| Value Range | <ul style="list-style-type: none">0: Do not verify1: Verify |
| Default Value | 0 |

DECT_MONITORING_ROOT_CERT_PATH

| | |
|----------------------|-------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the root certificate for server authentication for DECT monitoring is stored. |
| Value Range | Max. 384 characters |
| Default Value | Empty string |

DECT_MONITORING_CLIENT_CERT_PATH

| | |
|---------------------|---------------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the client certificate for client authentication for DECT monitoring is stored. |

| | |
|----------------------|---------------------|
| Value Range | Max. 384 characters |
| Default Value | Empty string |

DECT_MONITORING_PKEY_PATH

| | |
|----------------------|--------------------------------------------------------------------------------------------------|
| Value Format | STRING |
| Description | Specifies the URI where the private key for client authentication for DECT monitoring is stored. |
| Value Range | Max. 384 characters |
| Default Value | Empty string |

4.37 TWAMP Settings

TWAMP_ENABLE

| | |
|-------------------------------------|------------------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies whether to enable the TWAMP server function. |
| Value Range | Y: Enable the TWAMP server function. N: Disable |
| Default Value | N |
| Web User Interface Reference | Enable TWAMP |

TWAMP_CONTROL_PORT

| | |
|-------------------------------------|---------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port for the TWAMP control session. |
| Value Range | 1-65535 |
| Default Value | 862 |
| Web User Interface Reference | Control Port |

TWAMP_TEST_PORT

| | |
|-------------------------------------|------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the port for the TWAMP test session. |
| Value Range | 1-65535 |
| Default Value | 9000 |
| Web User Interface Reference | Test Port |

TWAMP_SERVER_WAIT_TIME

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the time, in seconds, for the TWAMP server to wait for incoming packets for maintaining the session. |
| Value Range | 1-65535 |
| Default Value | 900 |

4.37 TWAMP Settings

| | |
|------------------------------|-----------------------|
| Web User Interface Reference | Wait Time for Control |
|------------------------------|-----------------------|

[TWAMP_REFLECTOR_WAIT_TIME](#)

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Value Format | INTEGER |
| Description | Specifies the time, in seconds, for the TWAMP reflector to wait for incoming packets for maintaining the session. |
| Value Range | 1-65535 |
| Default Value | 900 |
| Web User Interface Reference | Wait Time for Reflector |

[TWAMP_PADDING_ZERO](#)

| | |
|----------------------|----------------------------------------------------------|
| Value Format | BOOLEAN |
| Description | Specifies the packet padding for the TWAMP test session. |
| Value Range | Y: All zeros N: Random |
| Default Value | N |

Section 5

Useful Telephone Functions

This section explains phone number settings, dial plan settings, the phonebook import/export function, the Broadsoft XSI function, the BroadCloud (Presence) function and Pairing (Parallel Mode).

5.1 Line Settings

5.1.1 Multi Number Settings

A unit can be used with 16 handsets.

You can assign a maximum of 16 different phone numbers for handsets.

Each available phone number (line) can be assigned to handsets as desired to handle incoming and outgoing calls.

This feature is available only when "MULTI_NUMBER_ENABLE"="Y" is set.

When "MULTI_NUMBER_ENABLE"="N", each handset has exclusive use of the line it has been assigned to.
(Handset 1 uses line 1, handset 2 uses line 2, ... handset 16 uses line 16.)

Programming Example 1

The following programming example shows a configuration where handsets have their own phone numbers, and handsets also share a common phone number.

You can program this table using Web user interface programming (→ see 3.6.1.1 Group Handset / Handset select for receiving call).

For details about configuring these settings by configuration file programming, see 4.35 Call Control Settings-INCOMING_CALL_GROUP_n.

[Grouping Handset / Handset selection for receiving calls]

| Line No. | Phone Number | Handset No. | | | | | | | | | | | | | | | Page ing |
|----------|--------------|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|-------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | 1111 | ✓ | | | | | | | | | | | | | | | HS1 |
| 2 | 2222 | | ✓ | | | | | | | | | | | | | | HS1 |
| 3 | 3333 | | | ✓ | | | | | | | | | | | | | HS1 |
| 4 | 4444 | | | | ✓ | | | | | | | | | | | | HS1 |
| 5 | 5555 | | | | | ✓ | | | | | | | | | | | HS1 |
| 6 | 6666 | | | | | | ✓ | | | | | | | | | | HS1 |
| 7 | 7777 | | | | | | | | | | | | | | | | HS1 |
| 8 | 8888 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | HS1 |
| 9 | 9999 | | | | | | | | | | | | | | | | HS1 |
| 10 | 1010 | | | | | | | | | | | | | | | | HS1 |
| 11 | 1011 | | | | | | | | | | | | | | | | HS1 |
| 12 | 1012 | | | | | | | | | | | | | | | | HS1 |
| 13 | 1013 | | | | | | | | | | | | | | | | HS1 |
| 14 | 1014 | | | | | | | | | | | | | | | | HS1 |
| 15 | 1015 | | | | | | | | | | | | | | | | HS1 |
| 16 | 1016 | | | | | | | | | | | | | | | | HS1 |

Case 1:

A call dialed to "1111" will be received by handset 1.

Case 2:

A call dialed to "2222" will be received by handset 2.

Case 3:

A call dialed to "8888" will be received by handsets 1–6.

When receiving a paging call, handset 1 will automatically answer the call.

Programming Example 2

The following programming example shows a configuration where handsets 1–3 dial with lines 1–3, respectively. Each handset uses the line set in **[Default]** by default.

You can program this table using Web user interface programming (→ see 3.6.1.2 Handset and Line Number select for making call).

For details about configuring these settings by configuration file programming, see 4.35 Call Control Settings—INCOMING_CALL_GROUP_n.

[Handset and Line No. selection for making calls]

| Handset No. | Line No. | | | | | | | | | | | | | | | | Default |
|-------------|----------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| 1 | ✓ | ✓ | ✓ | | | | | | | | | | | | | | 1 |
| 2 | ✓ | ✓ | ✓ | | | | | | | | | | | | | | 2 |
| 3 | ✓ | ✓ | ✓ | | | | | | | | | | | | | | 3 |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |

Case 1:

When a user goes off-hook with handset 1, line 1 is seized and dialed by default. Line 2 and line 3 can also be seized and dialed.

Case 2:

When a user goes off-hook with handset 2, line 2 is seized and dialed by default. Line 1 and line 3 can also be seized and dialed.

Case 3:

When a user goes off-hook with handset 3, line 3 is seized and dialed by default. Line 1 and line 2 can also be seized and dialed.

5.1.1 Multi Number Settings

Note

- You can make a call with one of the phone numbers other than the default phone number. For details about the operations, refer to the Operating Instructions on the Panasonic Web site (→ see Introduction).

5.2 Phonebook Import and Export

This section explains how to import and export phonebook data. Phonebook data of the cordless handset includes names and phone numbers.

(The description below uses the KX-TPA73 cordless handset as an example.)

Phonebook data on the cordless handset can be exported, edited with editor tools, and imported again. In addition, phonebook data created with other software can be imported into the cordless handset.

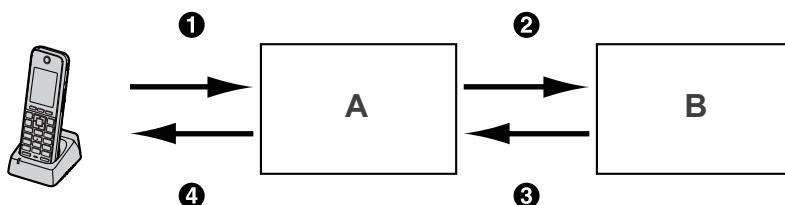
You can use the phonebook import and export functions as follows.

- A. Phonebook data
- B. Microsoft Excel
- C. Microsoft Outlook

Editing Phonebook Data on a PC

The phonebook data stored on the cordless handset can be edited using a program such as Microsoft Excel® spreadsheet software. For details about the operation, see **5.2.2 Editing with Microsoft Excel**.

You can export the phonebook data to the PC, edit the exported file using appropriate software, and then import it into the cordless handset.

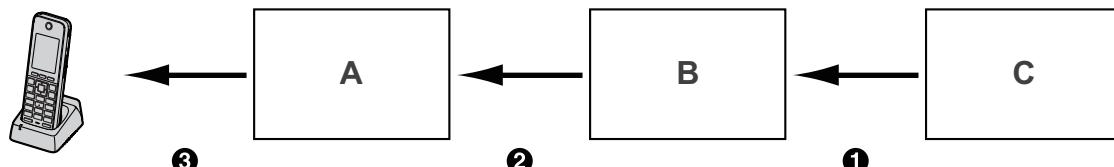


Importing Address Book Data from a PC

You can import address book data stored in programs, such as Microsoft Outlook® messaging and collaboration client, into the cordless handset.

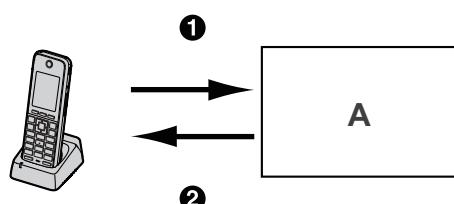
First, export address book data from the e-mail software to a program such as Microsoft Excel, edit it as necessary, and then import the exported data into the cordless handset.

For details about the operation, see **5.2.3 Exporting Data from Microsoft Outlook**.



Backing up Phonebook Data

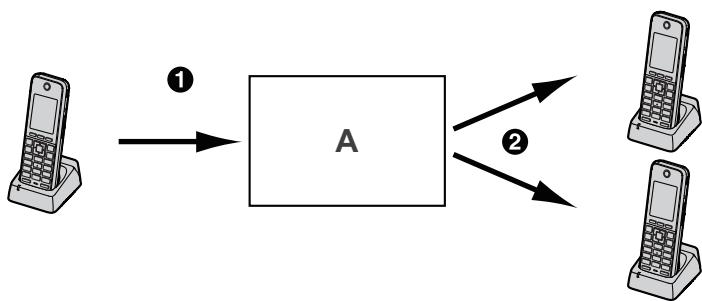
You can export the phonebook data from the cordless handset to a PC and keep the file as a backup in case of data loss or for use when exchanging the cordless handset.



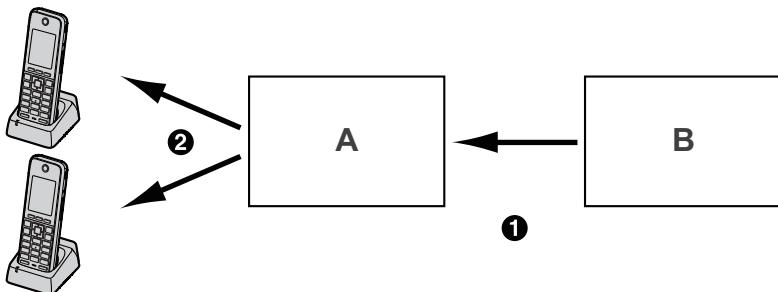
Importing the Same Phonebook Data to other Cordless handset

You can export the phonebook data created on a cordless handset to a PC, and then import it into other cordless handsets.

5.2 Phonebook Import and Export



You can also import phonebook data created on a PC to other cordless handsets.



Import/Export File Format

The file format used for importing and exporting the phonebook data is "TSV". When importing or exporting using Microsoft Excel, "CSV (Comma-separated Value)" is generally used as the file format.

A phonebook entry in the cordless handset has 9 fields. An entry in the phonebook data is represented in text as "record ID <TAB> name <TAB> reserved <TAB> phone number <TAB> reserved <line break>".

The text data can be edited using any text editing software that supports UTF-16 encoding with a BOM and little endian byte ordering. When you save the text file, it must be saved using the same format, or the text might become garbled.

Phonebook Data in Text Format

| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ | ⑪ | ⑫ | ⑬ | ⑭ | ⑮ | ⑯ | ⑰ |
|-----|-----------------|---|---|---|-----|---------|---|---|---|---|---|---|---|---|---|---|
| 1 | Aaron MacDowell | | | | 501 | 1234001 | | | | | | | | | | |
| 2 | Barbara Nicolls | | | | 502 | 1234002 | | | | | | | | | | |
| 3 | Carl O'Brien | | | | 503 | 1234003 | | | | | | | | | | |
| 4 | Dorothy Parker | | | | | 1234004 | | | | | | | | | | |
| ... | | | | | ... | ... | | | | | | | | | | |
| ... | | | | | ... | ... | | | | | | | | | | |

- ① Record ID (Unique ID: 1–500)
- ② Tab
- ③ Name (up to 24 characters)
- ④ Tab
- ⑤ Reserved (up to 24 characters)
- ⑥ Tab
- ⑦ Phone number (up to 32 digits)
- ⑧ Tab
- ⑨ Phone number (up to 32 digits)
- ⑩ Tab
- ⑪ Phone number (up to 32 digits)
- ⑫ Tab
- ⑬ Phone number (up to 32 digits)
- ⑭ Tab
- ⑮ Phone number (up to 32 digits)
- ⑯ Tab
- ⑰ Reserved

5.2.1 Import/Export Operation

The following procedures explain how to import phonebook data to cordless handsets, and how to export phonebook data from cordless handsets to a PC through the Web user interface.

For details about the settings, see [3.6.6 Import Phonebook](#) or [3.6.7 Export Phonebook](#).

To import phonebook data

1. Click the [Telephone] tab, and then click [Import Phonebook].
2. Select the handset number using [Handset Number] pulldown Menu.
3. In [File Name], enter the full path to the file that you want to import, or click **Browse** to select the phonebook data file that you want to import.
4. Click [Import].

To export the phonebook data

1. Click the [Telephone] tab, and then click [Export Phonebook].
2. Select the handset number using [Handset Number] pulldown Menu.
3. Click [Export].
4. On the "Now Processing File Data" screen, click the text "HERE" in the displayed message, or wait until **File Download** window appears.

Note

- Depending on the security settings of your Web browser, pop-up menus might be blocked. If the file cannot be exported successfully, try the export operation again or change the security settings of your Web browser.

- Click **Save on File Download** window.
- On the **Save As** window, select a folder to save the exported phonebook data to, enter the file name in **File name**, select **TSV File** for **Save as type**, and click **Save**.
If the file is downloaded successfully, the **Download complete** window appears.
- Click **Close**.
- To exit the operation, click the text "HERE" in the displayed message.
The **[Export Phonebook]** screen returns.

Note

- Make sure that the import source or cordless handset is in standby mode.
 - The import source or cordless handset must be specified at the time of import/export. The imported data is added to the existing phonebook data.
 - If the existing phonebook data has an entry with the same record ID as an imported entry, the entry is overwritten with the imported entry.
 - If the existing phonebook data has an entry with no record ID, it will be left in the phonebook.
 - If the imported phonebook data has an entry with no record ID, the imported entry is added as a new entry unless an existing entry with the same name and phone number is found.
- Phonebook entries that are added via the cordless handset are not assigned record IDs. Therefore, it is recommended to export phonebook data from the cordless handset, assign record IDs manually and then re-import them. Doing so can help manage phonebook data.
- The phonebook for a cordless handset has the following limitations:
 - A maximum of 500 phonebook entries can be stored in the cordless handset. If the cordless handset already has phonebook data, it accepts up to the 500th entry, including the existing entries. The rest of the entries will not be imported, and the message "**Memory Full**" is displayed on the cordless handset.
 - The name can contain up to 24 characters.
 - The phone number can contain up to 32 digits.
 - Phonebook entries exceeding the characters or digits limits cannot be imported properly.
 - If the export is interrupted by an operation on the cordless handset, only the data that has been successfully exported before the interruption is exported to a file.

5.2.2 Editing with Microsoft Excel

You can edit exported phonebook data on a PC with software such as Microsoft Excel. You can then import the phonebook data into cordless handsets.

To open the phonebook data on a PC

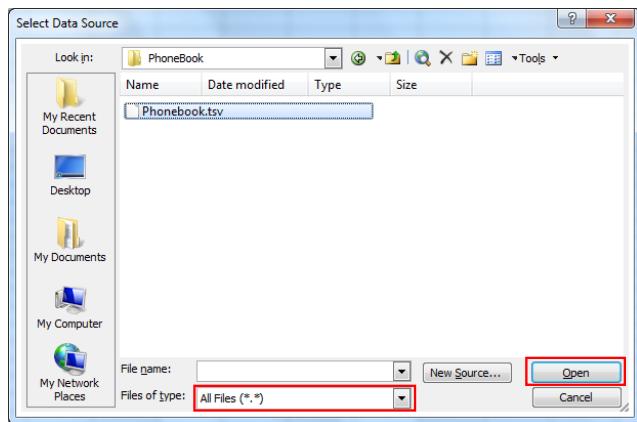
- Open Microsoft Excel.
- Click **Office Button**, and then **Open**.

Note

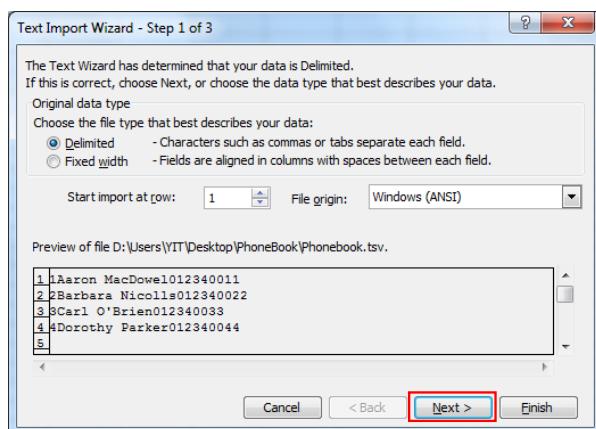
- Make sure to open a TSV file in this procedure. If you change the extension of a TSV file to ".csv", the file will open by simply double-clicking it. However, the character encoding of the file might not

be recognized properly, resulting in garbled characters, or the phone numbers might be recognized as numbers, resulting in data alteration.

- Select All Files for the file type, select the exported phonebook data file, and click Open.



- On the Text Import Wizard - Step 1 of 3 window, click Next.

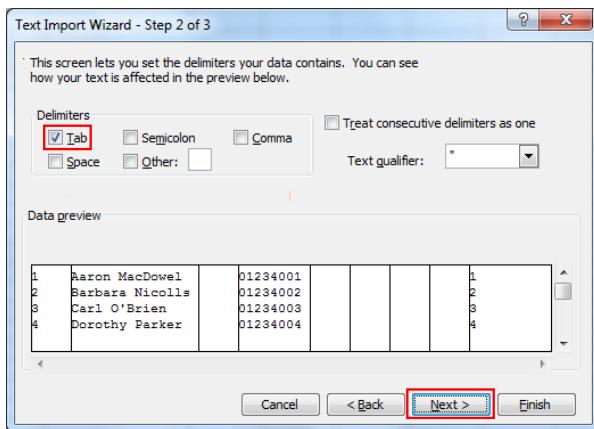


Note

- Regardless of what is selected for **File origin**, the file will be processed normally if the format is appropriate.

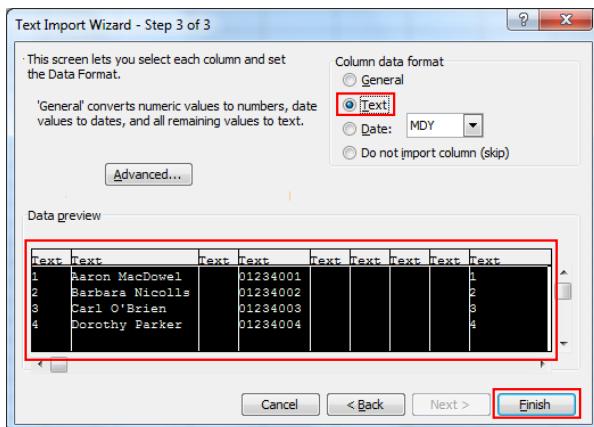
- On the Text Import Wizard - Step 2 of 3 window, select Tab for Delimiters, and then click Next.

5.2.2 Editing with Microsoft Excel



- On the **Text Import Wizard - Step 3 of 3** window, select all columns in **Data preview**, select **Text** in **Column data format**, and then click **Finish**.

The TSV file will be opened.



Note

- Phone numbers must be treated as text strings. Otherwise, a "0" at the beginning of a phone number might disappear when exported.

To save the phonebook data for importing to the cordless handset

- After editing the phonebook entries, click **Office Button**, and then **Save As**. Assign record IDs manually before saving.
- Enter a file name in **File name**, and select **Unicode Text** in **Save as type**. The file will be saved in UTF-16 little endian with a BOM. Fields will be separated by tabs.
- Click **Save**. A message warning you about file compatibility will be displayed.
- Click **Yes**. The file will be saved as a Unicode text file, with the fields separated by tabs.

Note

- The procedure may vary depending on the software version of Microsoft Excel. Therefore, files exported and imported between the cordless handset and Microsoft Excel are not always compatible with each other.

5.2.3 Exporting Data from Microsoft Outlook

You can export address book data stored in programs such as Microsoft Outlook, and then edit the exported data with a program such as Microsoft Excel in order to import it to the cordless handset.

To export the Microsoft Outlook address book data

1. In Microsoft Outlook, click **File**, and then click **Import and Export**.
2. Select **Export to a file**, and click **Next**.
3. Select **Tab Separated Values (Windows)**, and click **Next**.
4. Select **Contacts**, and click **Next**.
5. Click **Browse**, select a folder, and then enter the file name to export the data to.
6. Click **OK**.
7. On the **Export to a File** window, click **Next**.
8. Click **Map Custom Fields**.
9. Clear all items in the **To** list by clicking **Clear Map**. Then, drag only **Last Name** and **Business Phone** from the **From** list to the **To** list, and click **OK**.
10. On the **Export to a File** window, click **Finish**.

The data will be exported.

Note

- The procedure may vary depending on the software version of Microsoft Outlook.
- You can export data from Microsoft Outlook Express by using a similar procedure. It is also possible to export data from other applications that are compatible with Microsoft Excel.
- You can open the exported file in Microsoft Excel, and then import it to the cordless handset. For details, see **5.2.2 Editing with Microsoft Excel**.
- First and middle names are not exported using this procedure. You can export all necessary items and edit the entry before importing them to the cordless handset.
- In the file exported from Microsoft Outlook, fields are separated by tabs and encoded using the default character encoding for your operating system.

5.3 Dial Plan

The dial plan settings control how numbers dialed by the user are transmitted over the network. Dial plan settings can be configured on a per-line basis. These settings can be programmed either through the Web user interface (→ see **3.6.3.2 Dial Plan**) or by configuration file programming (→ see **4.35 Call Control Settings**).

5.3.1 Dial Plan Settings

To set Dial Plan

1. In the Web user interface, click the **[Telephone]** tab, and then click **[Call Control [Line 1]–[Line x]]**.
2. In **[Dial Plan]**, enter the desired dial format.
The dial plan settings can be configured for each line separately.
For details about available characters for the dial format, see **Available Values for the Dial Plan Field** in this section.
3. Select **[Yes]** or **[No]** for **[Call Even If Dial Plan Does Not Match]**.

5.3.1 Dial Plan Settings

- If you select [Yes], the call will be made even if the user dials a phone number that does not match the dial format in [Dial Plan].
- If you select [No], the call will be made only if the user dials a phone number that matches the dial format in [Dial Plan].

Note

- For details about configuring these settings by configuration file programming, see "`DIAL_PLAN_n`" and "`DIAL_PLAN_NOT_MATCH_ENABLE_n`" in **4.35 Call Control Settings**.

Available Values for the Dial Plan Field

The following table explains which characters you can use in the dial format, and what the characters mean.

| Element | Available Value | Description |
|--------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| String | 0–9, [, - ,] , < , : , > , * , #, !, S, s, T, t, X, x, ., , + | You can enter dial plan descriptions using a combination of the characters listed as available values. |
| Digit | 0–9, *, #, + | Example: "123" If the dialed phone number is "123", the call is made immediately. |
| Wildcard | X, x | Example: "12xxxxx" If the dialed phone number is "12" followed by any 5-digit number, the call is made immediately. |
| Range | [] | Example: "[123]" If the dialed phone number is either one of "1", "2", or "3", the call is made immediately. |
| Subrange | - | Example: "[1-5]" If the dialed phone number is "1", "2", "3", "4", or "5", the call is made immediately. <ul style="list-style-type: none">• A subrange is only valid for single-digit numbers. For example, "[4-9]" is valid, but "[12-21]" is invalid. |
| Repeat | . | Example: "1." If the dialed phone number is "1" followed by zero or more "1"s (e.g., "11", "111"), the call is made. |
| Substitution | <(before):(after)> | Example: "<101:9999>" If the dialed phone number is "101", "101" is replaced by "9999", and then the call is made immediately. |
| Timer | S, s (second) | Example: "1x.S2" If the dialed phone number begins with "1", the call is made after a lapse of 2 seconds. <ul style="list-style-type: none">• The number (0–9) followed by "S" or "s" shows the duration in seconds until the call is made. |
| Macro Timer | T, t | Example: "1x.T" If the dialed phone number begins with "1", the call is made after a lapse of "T" seconds. <ul style="list-style-type: none">• The value of "T" or "t" can be configured through the Web user interface (→ see [Timer for Dial Plan] in 3.6.2.1 Call Control). |

| Element | Available Value | Description |
|-------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reject | ! | Example: "123xxx!" If the dialed phone number is "123" followed by 3 digits, the call is not made. |
| Alternation | | Example: "1xxxx 2xxx" If the dialed phone number is "1" followed by 4 digits, or "2" followed by 3 digits, the call is made immediately. You can use this element to specify multiple numbers. |
| Comma | , | Example: "9,xxxxxxxxxx.T" If 9 is dialed, the second dial tone is heard, and then 11 digits are dialed, the call is made after waiting "T" seconds. * The dialing will include the initially dialed "9". |

Note

- You can enter up to 1000 characters in [Dial Plan].
- You can assign up to 100 dial plans separated by "|" in [Dial Plan].
- You can assign up to 32 digits per dial plan in [Dial Plan].
- You can assign up to 10 substitutions in [Dial Plan].
- After the user completes dialing, the cordless handset immediately sends all the dialed digits if [Call Even If Dial Plan Does Not Match] is set to [Yes] in the Web user interface or "DIAL_PLAN_NOT_MATCH_ENABLE_n" is set to "N" in a configuration file. The cordless handset recognizes the end of dialing as follows:
 - The inter-digit timer expires (→ see [Inter-digit Timeout] in 3.6.2.1 Call Control in the Web user interface or "INTDIGIT_TIM" in 4.32 Telephone Settings in the configuration file).
 - The user presses [ENTER] or the # key.
 - The call is initiated after going off-hook (pre-dial).

Dial Plan Example

The following example shows dial plans containing character sequences separated by "|".
Example: "[2346789]11|01[2-9]x.|[2-9]xxxxxxxx"

Complete Match:

Example: "[2346789]11|01[2-9]x.|[2-9]xxxxxxxx"

- If the dialed phone number is "211", "911" and so on, the call is made immediately.

Example: "[2346789]11|01[2-9]x.|[2-9]xxxxxxxx"

- If the dialed phone number is "2123456789", "5987654321" and so on, the call is made immediately.

Partial Match (when the dial plan contains "."):

Example: "[2346789]11|01[2-9]x.|[2-9]xxxxxxxx"

- If the dialed phone number is "01254", "012556" and so on, the call is made after the inter-digit timer expires.

Partial Match (when the dial plan does not contain "."):

Example: "[2346789]11|01[2-9]x.|[2-9]xxxxxxxx"

- If the dialed phone number is "21", "91" and so on when [Call Even If Dial Plan Does Not Match] is set to [Yes], the call is made after the inter-digit timer expires.

5.4 Broadsoft XSI (Xtended Services Interface)

- If the dialed phone number is "21", "91" and so on when **[Call Even If Dial Plan Does Not Match]** is set to **[No]**, the call is denied after the inter-digit timer expires.

Example: "[2346789]11|01[2-9]x.|[2-9]xxxxxxxx"

- If the dialed phone number is "21234567", "598765432" and so on when **[Call Even If Dial Plan Does Not Match]** is set to **[Yes]**, the call is made after the inter-digit timer expires.
- If the dialed phone number is "21234567", "598765432" and so on when **[Call Even If Dial Plan Does Not Match]** is set to **[No]**, the call is denied after the inter-digit timer expires.

No Match:

Example: "[2346789]11|01[2-9]x.|[2-9]xxxxxxxx"

- If the dialed phone number is "0011", "1011" and so on when **[Call Even If Dial Plan Does Not Match]** is set to **[Yes]**, the call is made after the inter-digit timer expires.
- If the dialed phone number is "0011", "1011" and so on when **[Call Even If Dial Plan Does Not Match]** is set to **[No]**, the call is denied.

5.4 Broadsoft XSI (Xtended Services Interface)

5.4.1 Outline

BroadWorksXsi is an API library used to support the integration of Internet service-based BroadWorks functionality to create web applications and mashups (web application hybrids).

This product uses the Broadsoft XSI (Xtended Services Interface) to run the following services.

1. Remote Office
2. AnyWhere
3. Simultaneous Ring Personal
4. Calling Line ID Delivery Blocking (Anonymous Call)
5. Call Forward
6. Do Not Disturb
7. Anonymous Call Rejection

(1) Remote Office

The Remote Office function allows you to use your home phone or cellular phone as your office phone. All incoming calls are forwarded from the IP phone to the Remote Office phone number.

(2) AnyWhere

The AnyWhere function is for remote users to easily access their IP phone's functions (such as making and receiving calls, and voicemail) from any phone.

(3) Simultaneous Ring Personal

The Simultaneous Ring Personal function enables up to 10 other phone numbers to ring at the same time an IP phone receives a call.

(4) Calling Line ID Delivery Blocking (Anonymous Call)

The Calling Line ID Delivery Blocking (Anonymous Call) function sets the caller information for calls made from an IP phone to "Anonymous Call".

(5) Call Forward

The Call Forward function forwards incoming calls to an IP phone to a specified phone number.

* When Feature Key Synchronization is set (FWD_DND_SYNCHRO_ENABLE_n="Y", see page 345), the Call Forward function will not operate as an XSI function.

(6) Do Not Disturb

The Do Not Disturb function rejects incoming calls to the IP phone.

* When Feature Key Synchronization is set (FWD_DND_SYNCHRO_ENABLE_n="Y", see page 345), the Do Not Disturb function will not operate as an XSI function.

(7) Anonymous Call Rejection

The Anonymous Call Rejection function rejects calls made to the IP phone as Anonymous Calls.

5.4.2 XSI Service Settings

Phone settings for using XSI services can be set using configuration parameters or the Web user interface (administrators only).

See **3.3.7 Xtended Service Settings** for making settings using the Web user interface.

The following parameter names will be displayed and can be set as needed.

| Parameter Name | Description | Reference |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------|
| XSI_ENABLE | Enables XSI services. | page 227 |
| XSI_SERVER | Specifies the XSI server. | page 228 |
| XSI_SERVER_TYPE | Specifies the communication method. | page 228 |
| XSI_SERVER_PORT | Specifies the port used for communication with the XSI server. | page 228 |
| XSI_USERID_n | Specifies the user name for each user (account) that will use XSI. | page 228 |
| XSI_PASSWORD_n | Specifies the password for each user (account) that will use XSI. | page 228 |
| XSI_PHONEBOOK_ENABLE_n | Specifies whether to enable or disable the Xsi phonebook service. | page 229 |
| XSI_PHONEBOOK_CYCLIC_INVL | Specifies the interval, in minutes, between periodic checks for updates of the Xsi Directory (Phonebook) files. | page 229 |
| XSI_PHONEBOOK_RESYNC_DURATION | Specifies the time range, in minutes, during which units will access the server at a random time. | page 229 |
| XSI_PHONEBOOK_TYPE_n | Specifies the type of Xsi phonebook. | page 229 |
| XSI_CALLLOG_ENABLE_n | Specifies whether to enable or disable the Xsi call log service. | page 230 |
| XSI_SIP_CREDENTIALS_ENABLE | Specifies whether to enable or disable the XSI SIP Credentials feature. | page 230 |
| BSD_GROUP_ENABLE_n | Specifies whether to enable or disable the "Group" type for Xsi phonebooks. | page 230 |
| BSD_GROUPCOM_ENABLE_n | Specifies whether to enable or disable the "GroupCommon" type for Xsi phonebooks. | page 230 |

| Parameter Name | Description | Reference |
|----------------------------|----------------------------------------------------------------------------------------|-----------|
| BSD_ENTERPRISE_ENABLE_n | Specifies whether to enable or disable the "Enterprise" type for Xsi phonebooks. | page 231 |
| BSD_ENTERPRISECOM_ENABLE_n | Specifies whether to enable or disable the "EnterpriseCommon" type for Xsi phonebooks. | page 231 |
| BSD_PERSONAL_ENABLE_n | Specifies whether to enable or disable the "Personal" type for Xsi phonebooks. | page 231 |
| BSD_MULTI_TYPE_ENABLE | Specifies whether you can select the type of Xsi phonebook. | page 232 |
| XSI_ACTION_URL | Specifies a part of the XSI-Action URL. | page 232 |
| XSI_NAME_REPLACE_RULE | Specifies the characters to make the name of the XSI Call Log the empty string. | page 232 |

Note

To change settings for the following XSI services using a handset, the parameter ADMIN_ABILITY_ENABLE_HSy="Y" (see page 342) must be set. (When ADMIN_ABILITY_ENABLE_HSy="N" is set, the settings can only be viewed.)

- Remote Office (Remote Office)
- AnyWhere (Anywhere)
- Simultaneous Ring Personal (SimultaneousRing)
- Calling Line ID Delivery Blocking (Anonymous Call)
- Anonymous Call Rejection (Block Anonymous)

Note

The text in parentheses are shown on the handset display.

Operations for accessing the above XSI services

KX-TPA70/KX-TPA73

[In standby mode]

1. /[CENTER]
2. []/[]: "Call Service" → /[CENTER]
3. []/[]: "Anonymous Call", "Block Anonymous", "Anywhere", "Remote Office", or "SimultaneousRing" → /[CENTER]

5.5 BroadCloud (Presence)

5.5.1 Outline

The KX-TGP700 supports the following BroadCloud functions.

(1) BroadCloud Buddies

View the information of your Buddies.

(2) BroadCloud Favorites

View the information of your Buddies that have been marked as Favorites.

(3) BroadCloud Presence
Shares presence statuses.

5.5.2 BroadCloud (Presence) Function Settings

Phone settings for using XMPP functions can be set using configuration parameters or the Web user interface (administrators only).

See **3.3.8 UC Settings** for making settings using the Web user interface.

The following parameter names will be displayed and can be set as needed.

| Parameter Name | Description | Reference |
|-----------------------|--------------------------------------------------------------------------------------------------------|-----------|
| UC_ENABLE | Enables BroadCloud services. | page 232 |
| UC_USERID_HSy | Specifies user IDs for the BroadCloud server. | page 232 |
| UC_PASSWORD_HSy | Specifies passwords for the BroadCloud server. | page 233 |
| XMPP_SERVER | Specifies the IP address or FQDN of the XMPP server. | page 233 |
| XMPP_PORT | Specifies the communication port for XMPP. | page 233 |
| XMPP_TLS_VERIFY | Specifies the TLS (Transport Layer Security) certification validation type for protocol communication. | page 233 |
| XMPP_ROOT_CERT_PATH | Specifies the path (URL) of the ROOT certificate for XMPP. | page 233 |
| XMPP_CLIENT_CERT_PATH | Specifies the path (URL) of the Client certificate for XMPP. | page 234 |
| XMPP_PKEY_PATH | Specifies the path (URL) of the private key for XMPP. | page 234 |

5.5.3 Handset Operation of BroadCloud (Presence) Functions

Operations for Viewing the Buddies List

KX-TPA70/KX-TPA73

[In standby mode]

1. [◀]
2. [\wedge]/[\vee]: "Buddies" → /[CENTER]
The Buddies list is displayed.

Operations for Viewing the Favorites List

KX-TPA70/KX-TPA73

[In standby mode]

1. [◀]
2. [\wedge]/[\vee]: "Favorites" → /[CENTER]
The Favorites list is displayed.

Operations to Change Your Handset's Presence

KX-TPA70/KX-TPA73

[In standby mode]

1. [◀]
2. [\wedge]/[\vee]: "My Phone" → /[CENTER]
3. [\triangleright]/[\triangleleft]: "Available", "Away", "Busy", "Offline" or "Invisible" → /[CENTER]

5.6 Pairing (Parallel Mode)

Presence Status Icons

When Buddies or Favorites lists are displayed, presences are indicated by icons.

| Lit/Flashing | Presence Status | Remarks |
|--------------|-----------------|------------------------------------------|
| Off | Offline | Indicates user is offline. |
| Lit Green | Available | Indicates user is available. |
| Flashing Red | Away | Indicates user is away from their phone. |
| Lit Red | Busy | Indicates user is busy. |

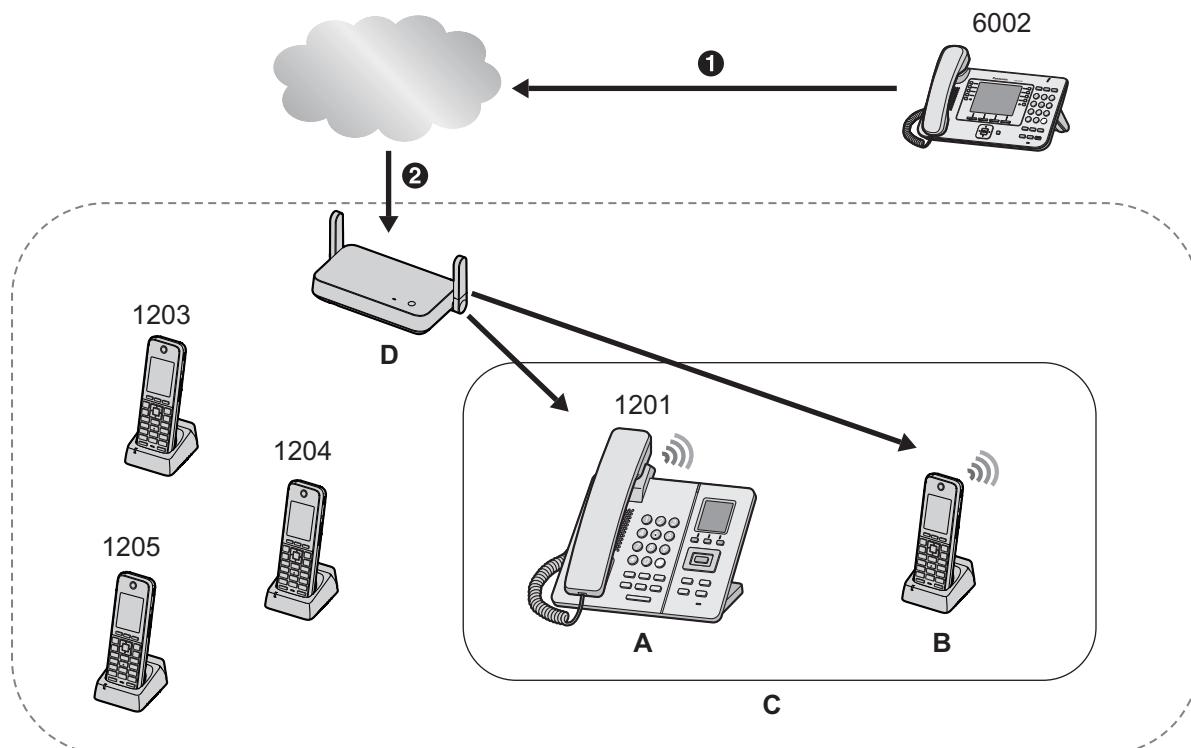
5.6 Pairing (Parallel Mode)

5.6.1 Outline

By using a cordless desktop phone (KX-TPA65/KX-TPA68) as a master desk phone, a wireless handset (KX-TPA60/KX-TPA70/KX-TPA73) can be set to be paired with it so that the phone number (account) of the master desk phone (KX-TPA65/KX-TPA68) is applied to the slave (paired) handset (KX-TPA60/KX-TPA70/KX-TPA73).

With pairing settings, the desktop phone (KX-TPA65/KX-TPA68) can be used while you are sitting at your desk, and the slave handset (KX-TPA60/KX-TPA70/KX-TPA73) can be used while away from your desk to enhance your business activities.

1. Image of Pairing (Parallel Mode) Operation (Incoming Call)



① Call from 6002

② Call to 1201

A. Master Desk Phone (KX-TPA65/KX-TPA68)

B. Paired Handset (KX-TPA60/KX-TPA70/KX-TPA73)

C. Paired Phones

D. Base Unit (KX-TGP700)



Operation Description

1. A call is made to Ext. 1201 from Phone C.
2. When the base unit D receives the call, Phone A and Phone B both ring.
3. The call can be answered from either Phone A or Phone B.

Note

- While pairing is set, the extension originally set for the paired handset is disabled.
- While pairing is set, calls made from the paired handset are handled as calls made from the master desk phone (in the example, 1201). (The caller information for such calls will be that of extension 1201.)
- While pairing is set and one of the paired phones is busy and the other paired phone goes off hook, a setting can be made for whether to continue the conversation with the phone that went off hook, or to send a busy signal to the phone that went off hook (prohibiting operation with that phone). The setting can be made using configuration parameters or the Web user interface (administrators only).

5.6.2 Pairing (Parallel Mode) Settings

Pairing (Parallel Mode) settings can be made using configuration parameters or the Web user interface (administrators only).

Up to 4 pairing settings can be made.

Note

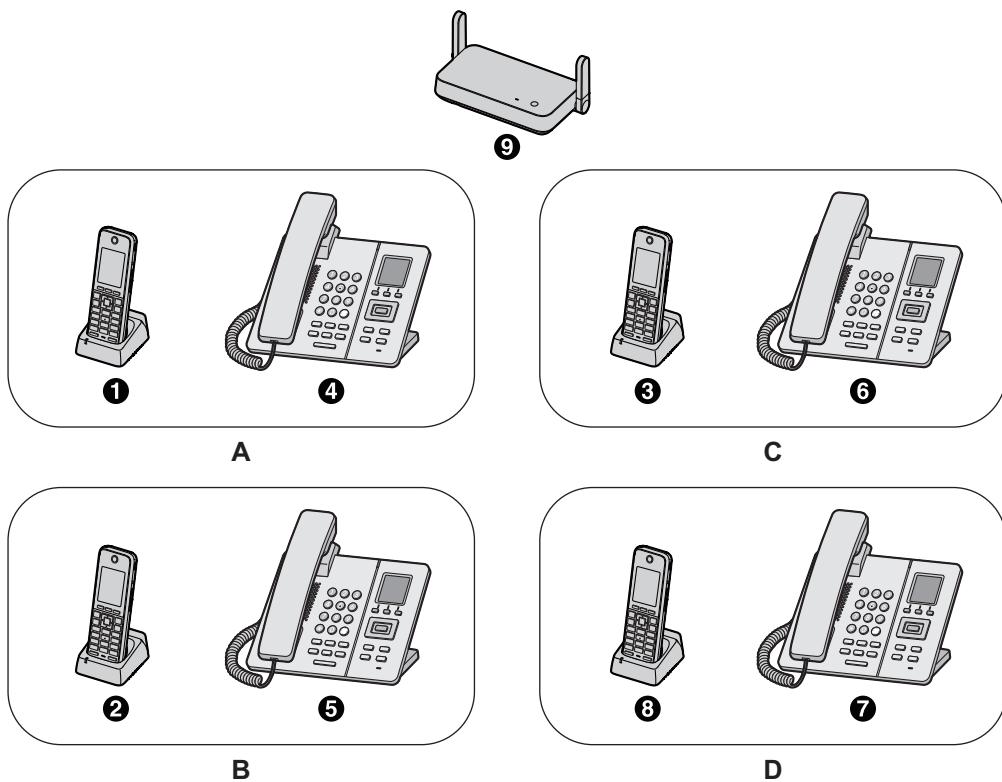
- Only desktop phones (KX-TPA65/KX-TPA68) can be set as master desk phones
- Handsets that are already paired cannot be set as a pair with another phone. (Note that functionality with such settings cannot be guaranteed.)

Pairing Setting Example

As an example, 4 handsets (KX-TPA60/KX-TPA70/KX-TPA73) with a KX-TGP700 base unit, along with 4 desktop phones (KX-TPA65/KX-TPA68) are in use.

Here the maximum 4 pairing settings will be explained.

5.6.2 Pairing (Parallel Mode) Settings



- ① Handset 1 (KX-TPA60/KX-TPA70/KX-TPA73)
- ② Handset 2 (KX-TPA60/KX-TPA70/KX-TPA73)
- ③ Handset 3 (KX-TPA60/KX-TPA70/KX-TPA73)
- ④ Handset 4 Master Desk Phone (KX-TPA65/KX-TPA68)
- ⑤ Handset 5 Master Desk Phone (KX-TPA65/KX-TPA68)
- ⑥ Handset 6 Master Desk Phone (KX-TPA65/KX-TPA68)
- ⑦ Handset 7 Master Desk Phone (KX-TPA65/KX-TPA68)
- ⑧ Handset 8 (KX-TPA60/KX-TPA70/KX-TPA73)
- ⑨ Base Unit (KX-TGP700)

- A. Pairing Group 1
- B. Pairing Group 2
- C. Pairing Group 3
- D. Pairing Group 4

| Phone | Model No. | ID Number | Master | Pairing Group |
|-----------|------------------------------------|-----------|--------|---------------|
| Handset 1 | KX-TPA60/ KX-TPA70/ KX-TPA73 | 1 | | 1 |
| Handset 2 | KX-TPA60/ KX-TPA70/ KX-TPA73 | 2 | | 2 |
| Handset 3 | KX-TPA60/ KX-TPA70/ KX-TPA73 | 3 | | 3 |
| Handset 4 | KX-TPA65/ KX-TPA68 | 4 | ✓ | 1 |

| Phone | Model No. | ID Number | Master | Pairing Group |
|-----------|------------------------------------|-----------|--------|---------------|
| Handset 5 | KX-TPA65/ KX-TPA68 | 5 | ✓ | 2 |
| Handset 6 | KX-TPA65/ KX-TPA68 | 6 | ✓ | 3 |
| Handset 7 | KX-TPA65/ KX-TPA68 | 7 | ✓ | 4 |
| Handset 8 | KX-TPA60/ KX-TPA70/ KX-TPA73 | 8 | | 4 |

Note

The handset's ID number is shown on the handset's standby display. (Ex. 1, 2 ... 8.)

1. Configuration parameter setting examples

| Parameter Name | Description | Reference |
|--------------------|----------------------------------------------------------------------------------------------------------------------|-----------|
| PARALLEL_HSNO m | Specifies the paired handset. Note For the paired handset, specify using the KX-TGP700's ID number. | page 347 |
| PARALLEL_MODE m | Specifies the operation mode for when one paired handset is in a call and the other handset goes off hook. | page 348 |

Note

Specify the master desk phone's ID number for "m" in PARALLEL_HSNOm and PARALLEL_MODEm.

Specify the ID number of the handset to be paired for the value of PARALLEL_HSNOm. For configuration parameter details, see PARALLEL_HSNOm.

| <Pairing Group 1 Settings> | Configuration Parameter Setting |
|-----------------------------------------------------------------------|---------------------------------|
| Handset 4 is paired as the master desk phone together with Handset 1. | PARALLEL_HSNO4="1" |
| Operation Mode: Continue call | PARALLEL_MODE4="1" |

Note

The ID number of the master desk phone is 4, so set PARALLEL_HSNO4 and PARALLEL_MODE4.

| <Pairing Group 2 Settings> | Configuration Parameter Setting |
|-----------------------------------------------------------------------|---------------------------------|
| Handset 5 is paired as the master desk phone together with Handset 2. | PARALLEL_HSNO5="2" |
| Operation Mode: Continue call | PARALLEL_MODE5="1" |

Note

The ID number of the master desk phone is 5, so set PARALLEL_HSNO5 and PARALLEL_MODE5.

5.7 Flexible Key Setting for KX-TPA68

| <Pairing Group 3 Settings> | Configuration Parameter Setting |
|-----------------------------------------------------------------------|---------------------------------|
| Handset 6 is paired as the master desk phone together with Handset 3. | PARALLEL_HSNO6="3" |
| Operation mode: Busy | PARALLEL_MODE6="0" |

Note

The ID number of the master desk phone is 6, so set PARALLEL_HSNO6 and PARALLEL_MODE6.

| <Pairing Group 4 Settings> | Configuration Parameter Setting |
|-----------------------------------------------------------------------|---------------------------------|
| Handset 7 is paired as the master desk phone together with Handset 8. | PARALLEL_HSNO7="8" |
| Operation mode: Busy | PARALLEL_MODE7="0" |

Note

The ID number of the master desk phone is 7, so set PARALLEL_HSNO7 and PARALLEL_MODE7.

2. Setting using the Web user interface (administrators only)
See 3.4.8 Parallel Mode Settings for making settings using the Web user interface.

Note

"Master Desk Phone Number" refers to the ID number of the master desk phone (KX-TPA65/KX-TPA68).

"Slave Handset Number" is set to the ID number of the slave handset (KX-TPA60/KX-TPA70/KX-TPA73).

5.7 Flexible Key Setting for KX-TPA68

You can customize the flexible keys on KX-TPA68. They can then be used to make or receive outside calls or as feature buttons. These settings can be programmed either through the Web user interface (→ see 3.6.8 Flexible Key Settings for KX-TPA68) or by configuration file programming (→ see 4.33 Flexible Key Settings for KX-TPA68).

The following table shows the settings.

| Setting Name: Type/ FLEX_BUTTON_FACILITY_HSy_ACTx | Setting Value: Parameter/ FLEX_BUTTON_FACILITY_HSy_ARGx | Setting Value: Label Name/ FLEX_BUTTON_HSy_LAB_ELx |
|----------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------|
| One Touch Dial/ X_PANASONIC_IPTEL_ON ETOUCH | Phone Number | Name or Phone number |
| Call Park/ X_PANASONIC_IPTEL_CA LLPARK | Value of "NUM_PLAN_PARKING" | Name ("Call Park" is displayed if not set.) |
| Park Retrieve/ X_PANASONIC_IPTEL_PA RKRETRIEVE | Value of "NUM_PLAN_PARKING_RETRIEVING" | Name ("Park Retrieve" is displayed if not set.) |
| Group Pickup/ X_PANASONIC_IPTEL_GR OUPPICKUP | Value of "NUM_PLAN_PICKUP_GROUP" | Name ("Group Pickup" is displayed if not set.) |

| Setting Name: Type/ FLEX_BUTTON_FACILITY_HSy_ACTx | Setting Value: Parameter/ FLEX_BUTTON_FACILITY_HSy_ARGx | Setting Value: Label Name/ FLEX_BUTTON_HSy_LAB_ELx |
|----------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------|
| Directed Call Pickup/ X_PANASONIC_IPTEL_DIRECTPICKUP | Specified Number | Name ("Directed Call Pickup" is displayed if not set.) |
| Paging/ X_PANASONIC_IPTEL_PAGING | – | Name ("Paging" is displayed if not set.) |
| Presence/ X_PANASONIC_IPTEL_PRESENCE | – | Name ("Presence" is displayed if not set.) |
| My Phone/ X_PANASONIC_IPTEL_MYPHONE | – | Name ("My Phone" is displayed if not set.) |
| Memo Alarm/ X_PANASONIC_IPTEL_MEALARM | – | Name ("Memo Alarm" is displayed if not set.) |
| Intercom/ X_PANASONIC_IPTEL_INTERCOM | – | Name ("Intercom" is displayed if not set.) |
| X_PANASONIC_IPTEL_LINE_NOTIFICATION | Line number | "Line " + line number |

5.7 Flexible Key Setting for KX-TPA68

Section 6

Firmware Update

This section explains how to update the firmware of the unit.

6.1 Firmware Server Setup

You can use an HTTP, HTTPS, FTP, or TFTP server as the firmware server by simply setting its URL.

Updating the firmware of handsets takes approximately 15 minutes and up to 4 unused handsets can be updated simultaneously. Updating 5 or more handsets simultaneously will take approximately 30 minutes to complete. While downloading, "Downloading xx%" (xx=01-99) is displayed on the handset. If the display does not change after several minutes, there may be a communication error; try moving the handset closer to the base unit.

Before performing the firmware update, make sure that the handset is turned on and is communicating with the base unit.

If the firmware update is started while the handset is on a call, the update will start after the call is completed. During the firmware update, the handset cannot be used to make calls (including emergency calls). Also, the firmware update cannot be canceled midway through the update.

Note

- To ensure that the update proceeds smoothly, it is recommended that the handset is placed on its charger for the duration of the update.
- It is recommended to select a time for updating in which the handset will not be used. (For details about the timing of updating configuration files, see 2.2.4 Downloading Configuration Files.)

6.2 Firmware Update Settings

Firmware updates are provided by the manufacturer when necessary.

The firmware update will be executed by setting the corresponding parameters using configuration file programming (→ see 4.9 Firmware Update Settings) or Web user interface programming (→ see 3.7.2 Firmware Maintenance). The following shows the parameters and the setting procedures:

Firmware Update Enable/Disable

- In a configuration file, add the line, `FIRM_UPGRADE_ENABLE="Y"`.
- In the Web user interface, click the [Maintenance] tab, click [Firmware Maintenance], and then select [Yes] for [Enable Firmware Update].

Firmware Version Number

- In a configuration file, specify the new version number in `"FIRM_VERSION"`.

Firmware Server URL

- In a configuration file, specify the URL in `"FIRM_FILE_PATH"`.
- In the Web user interface, click the [Maintenance] tab, click [Firmware Maintenance], and then enter the URL in [Firmware File URL].

Configuration Parameter Example

By setting the parameters as shown in the following example, the unit will automatically download the firmware file from the specified URL, "http://firm.example.com/firm/01.050.fw", and perform the update operation if the currently used firmware version is older than 01.050.

Example

```
FIRM_UPGRADE_ENABLE="Y"  
FIRM_VERSION="01.050"  
FIRM_FILE_PATH="http://firm.example.com/firm/01.050.fw"
```

6.3 Executing Firmware Update

After configuring the firmware update settings in the configuration file, the firmware will be updated when the configuration file is downloaded. The firmware update procedure is detailed below.

The firmware update process

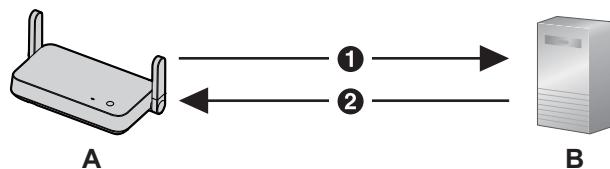
Note

- Downgrading the firmware is not recommended. Operation cannot be guaranteed after performing a downgrade.

Step 1

The unit downloads a configuration file from the provisioning server.

- For details about setting the timing of when configuration files are downloaded, see [2.2.4 Downloading Configuration Files](#).



① Provisioning Server Address

② Configuration File

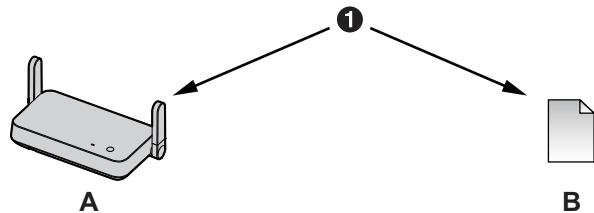
A. KX-TGP700

B. Provisioning Server

Step 2

The unit compares the version number of the firmware in the configuration file to the unit's current firmware version.

(In this example, the unit is using version 01.000 and the configuration file specifies version 01.050.)



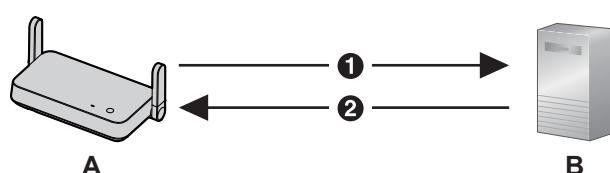
① Compare

A. KX-TGP700
Current Version 01.000

B. Provisioned Configuration File
FIRM_VERSION="01.050"

Step 3

When a newer firmware version is specified in the configuration file, the unit will download the firmware from the address specified under "FIRM_FILE_PATH" in the configuration file.



① http://firm.example.com/firm/01.050.fw

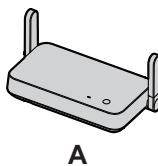
② 01.050.fw

A. KX-TGP700

B. Firmware Server

Step 4

Once the newer firmware is downloaded, it is applied to the unit and the unit automatically restarts.



A

Version 01.050 Updated

Step 5

After the base unit is updated, the update for the handsets [KX-TPA60, KX-TPA65, KX-TPA68, KX-TPA70, KX-TPA73, KX-UDT121, KX-UDT131] is executed.

6.4 Upgrade Firmware

When an updated version of the firmware is provided on a Web site or other means, you can perform the firmware update manually using Web user interface programming.

For details about the local firmware update, see [3.7.3 Upgrade Firmware](#).

Updating the firmware of handsets takes approximately 15 minutes and up to 4 unused handsets can be updated simultaneously. Updating 5 or more handsets simultaneously will take approximately 30 minutes to complete. While downloading, "Downloading xx%" (xx=01-99) is displayed on the handset. If the display does not change after several minutes, there may be a communication error; try moving the handset closer to the base unit.

Before performing the firmware update, make sure that the handset is turned on and is communicating with the base unit.

If the firmware update is started while the handset is on a call, the update will start after the call is completed. During the firmware update, the handset cannot be used to make calls (including emergency calls). Also, the firmware update cannot be canceled midway through the update.

Note

- To ensure that the update proceeds smoothly, it is recommended that the handset is placed on its charger for the duration of the update.
- It is recommended to select a time for updating in which the handset will not be used.

To manually update the firmware

1. In the Web user interface, click the **[Maintenance]** tab, and then click **[Upgrade Firmware]**.
2. Click **Browse**, select the folder where the firmware file is stored, and specify the firmware file on your PC.
3. Click **[Update Firmware]**.

Section 7

Troubleshooting

This section provides information about troubleshooting.

7.1 Troubleshooting

If you still have difficulties after following the instructions in this section, disconnect the unit from the AC outlet, then connect the AC adaptor again. If using PoE, disconnect the LAN cable, then connect the LAN cable again.

General Use

| Problem | Cause/Solution |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I cannot hear a dial tone. | <ul style="list-style-type: none">• Network settings may not be correct.• Many installation issues can be resolved by resetting all the equipment. First, shut down your modem, router, hub, unit, and PC. Then turn the devices back on, one at a time, in this order: modem, router, hub, unit, PC.• If you cannot access Internet Web pages using your PC, check to see if your phone system is having connection issues in your area.• Check the VoIP status in the Web user interface and confirm that each line is registered properly (→ see To check the setting status in the Web user interface in this section).• Check that the SIP server address, URLs of the configuration files, encryption key, and other required settings are correct.• Check the firewall and port forwarding settings on the router.• For details about the settings, consult your network administrator or phone system dealer. |

Base Unit STATUS Indicator

| Problem | Cause/Solution |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The STATUS indicator continues flashing in amber. | <ul style="list-style-type: none"> • An IP address may not have been acquired or the static IP address is not appropriate. Check the unit's IP address (see 1.1.3 Basic Network Setup). It is recommended to perform the following. • Network settings may not be correct. Check the unit's IP address (→ see 1.1.3 Basic Network Setup). • Many installation issues can be resolved by resetting all the equipment. First, shut down your modem, router, hub, base unit, and PC. Then turn the devices back on, one at a time, in this order: modem, router, hub, base unit, PC. • If you cannot access Internet Web pages using your PC, check to see if your phone system is having connection issues in your area. • Check the VoIP status in the Web user interface and confirm that each line is registered properly (→ see To check the setting status in the Web user interface in this section). • Check that the SIP server address, URLs of the configuration files, encryption key, and other required settings are correct. • Check the firewall and port forwarding settings on the router. • For details about settings, consult your network administrator or phone system dealer. |
| The STATUS indicator continues flashing in amber rapidly. | <ul style="list-style-type: none"> • Unplug the unit's AC adaptor to reset the unit, then reconnect the AC adaptor. If using PoE, disconnect the LAN cable, then connect the LAN cable again. If the STATUS indicate is still flashing in amber rapidly, there may be a problem with the base unit hardware. Contact your phone system dealer/service provider. |
| The STATUS indicator light is amber. | <ul style="list-style-type: none"> • The unit's IP address may conflict with the IP address of other devices on your local network. Check the unit's static IP address (→ see 1.1.3 Basic Network Setup). |
| The STATUS indicator is off. | <ul style="list-style-type: none"> • The base unit power is off. • The Ethernet cable is not connected properly. Connect it. |
| The STATUS indicator continues flashing in green rapidly. | <ul style="list-style-type: none"> • The unit is operating normally. The base unit's system is busy. Wait until the STATUS indicator is flashing or the indicator remains lit. |
| The STATUS indicator flashes quickly in the order of red → green → amber → off → red → green → amber → off | <ul style="list-style-type: none"> • The unit is being returned to its factory default settings. Wait until it has finished. |
| The STATUS indicator flashes slowly in the order of red → green → amber → off → red → green → amber → off | <ul style="list-style-type: none"> • When the STATUS indicator flashes in this way after the unit is turned on, the unit is in maintenance mode. Turn the unit off and back on again. |

Making/Answering Calls, Intercom

| Problem | Cause/Solution |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The unit does not ring. | <ul style="list-style-type: none"> • Check the VoIP status in the Web user interface and confirm that each line is registered properly (→ see To check the setting status in the Web user interface in this section). • Check that the SIP server address, URLs of the configuration files, encryption key, and other required settings are correct. • Check the firewall and port forwarding settings on the router. • Check [Call Control] for each line in the [Telephone] tab in the Web user interface. <ul style="list-style-type: none"> – If [Enable Do Not Disturb] is set to [Yes], the unit does not receive calls (→ see 3.6.3.1 Call Features). – If [Enable Call Forwarding No Answer] is set to [Yes], the unit does not receive calls (→ see 3.6.3.1 Call Features). – If [Enable Block Anonymous Call] is set to [Yes], the unit does not receive anonymous calls (→ see 3.6.3.1 Call Features). • Check that [Enable Do Not Disturb], [Enable Call Forwarding No Answer], and [Enable Block Anonymous Call] are not controlled by your phone system. • For details about settings, consult your network administrator or phone system dealer. |
| I cannot make a call. | <ul style="list-style-type: none"> • The handset is too far from the base unit. Move closer and try again. • Check the VoIP status in the Web user interface and confirm that each line is registered properly (→ see To check the setting status in the Web user interface in this section). • Check that the SIP server address, URLs of the configuration files, encryption key, and other required settings are correct. • Check the firewall and port forwarding settings on the router. • For details about settings, consult your network administrator or phone system dealer. |

Password for Web User Interface Programming

| Problem | Cause/Solution |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I have lost the login password of the Web user interface for the Administrator or User account. | <ul style="list-style-type: none"> Consult your network administrator or phone system dealer. For security reasons, it is recommended that the passwords are set again immediately (→ see 3.4.4 Admin Password Settings or 3.4.3 User Password Settings). |

Time

| Problem | Cause/Solution |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The time is not correct. | <ul style="list-style-type: none"> In the Web user interface, you can set NTP synchronization and DST (Summer Time) control to adjust the time automatically (→ see 3.4.5 Time Adjust Settings). If the time is still incorrect even after setting NTP synchronization, check the firewall and port forwarding settings on the router. |

Error Codes

When a system error occurs, when the handset accesses the base unit such as when pressing the [TALK] key, the error code is displayed on the handset's screen.

| Error code | Probable Cause | Solution |
|------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Error:001 | LAN disconnection detected | Check the LAN cables connections. |
| Error:002 | Overlapping IP addresses | Check the IP addresses and re-set them. For making settings using a handset, see 1.1.3 Basic Network Setup . |
| Error:003 | The REGISTER of the SIP server has not been registered. | Consult your network administrator or phone system dealer. |

Error Message

| Error Message | Probable Cause | Solution |
|---------------|------------------|------------------------------------------------------------|
| Need Repair | Hardware failure | Consult your network administrator or phone system dealer. |

Checking the Status of the Unit

You can check the status of the unit by using Web user interface programming (→ see **3.2.3 Network Status** and **3.2.4 VoIP Status**) or by looking at system logs (see **4.36 Logging Settings**) sent from the unit.

To check the setting status in the Web user interface

- Click the **[Status]** tab, and then click **[Network Status]** to check the network settings.
- Check the status displayed.
- Click **[VoIP Status]** to check the VoIP settings.
- Check the status displayed.

To check the setting status using the Cordless Handset

KX-TPA70/KX-TPA73:

[In standby mode]

1. /[CENTER]
2. [Δ]/[∇]: "Status" \rightarrow /[CENTER]
3. [Δ]/[∇]: "Handset" \rightarrow /[CENTER]

Export Logging File

Export the log file using the Web user interface (see [3.7.5 Export Logging File](#)).

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