

Administrator Guide

SIP Phone



KX-HDV430

Model No. **KX-HDV130**
KX-HDV230
KX-HDV330
KX-HDV340
KX-HDV430

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.

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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 **4 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 **4.4.1 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 **4.3.1 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 **5.3.2 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**).

For details about configuring network settings via the Web user interface, see **4.3.1 Basic Network Settings**.

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

KX-HDV130/KX-HDV230

[In standby mode]

1. 
2. /
3. /
4. /
5. /
 - The initial value is IPv4.

KX-HDV330/KX-HDV340/KX-HDV430

[In standby mode]

1. Tap / → "System Settings"
2. Tap "Network Settings"
3. Tap / → "IP Mode Select"
4. Tap "IPv4"/"IPv6"/"IPv4&IPv6"
 - The initial value is "IPv4".

Configuring the Network Settings Using IPv4

To configure network settings automatically

KX-HDV130/KX-HDV230

[In standby mode]

1. 
2. /
3. /
4. /
5. /
6. /
 - Select **Manual** to enter the addresses for DNS1 (primary DNS server) and, if necessary, DNS2 (secondary DNS server) manually, and then press .

KX-HDV330/KX-HDV340/KX-HDV430

[In standby mode]

1. Tap / → "System Settings"
2. Tap "Network Settings"
3. Tap / → "IPv4 Settings"

4. Tap   → "Connection Mode"
5. Select "DHCP" → "OK"
6. Tap   → "DNS"
7. Select "Auto" → "OK."
 - Select **Manual** to enter the addresses for DNS1 (primary DNS server) and, if necessary, DNS2 (secondary DNS server) manually, and then tap "OK".

To configure network settings manually

KX-HDV130/KX-HDV230

[In standby mode]

1. 
2.  : "System Settings" → 
3.  : "Network Settings" → 
4.  : "IPv4 Settings" → 
5.  : "Static" → 
6. Enter the IP address, subnet mask, default gateway, DNS1 (primary DNS server), and, if necessary, DNS2 (secondary DNS server), and then press .

KX-HDV330/KX-HDV340/KX-HDV430

[In standby mode]

1. Tap   → "System Settings"
2. Tap "Network Settings"
3. Tap   → "IPv4 Settings"
4. Tap   → "Connection Mode"
5. Select "Static" → "OK"
6. Enter the IP address, subnet mask, default gateway, DNS1 (primary DNS server), and, if necessary, DNS2 (secondary DNS server), and then tap "OK".

Configuring the Network Settings Using IPv6

To configure network settings automatically using DHCP

KX-HDV130/KX-HDV230

[In standby mode]

1. 
2.  : "System Settings" → 
3.  : "Network Settings" → 
4.  : "IPv6 Settings" → 
5.  : "DHCP" → 
6.  : "Auto" → 

- Select **Manual** to enter the addresses for DNS1 (primary DNS server) and, if necessary, DNS2 (secondary DNS server) manually, and then press **OK**.

KX-HDV330/KX-HDV340/KX-HDV430

[In standby mode]

1. Tap /  → "System Settings"
2. Tap "Network Settings"
3. Tap /  → "IPv6 Settings"
4. Tap /  → "Connection Mode"
5. Select "DHCP" → "OK"
6. Tap /  → "DNS"
7. Select "Auto" → "OK"
 - Select **Manual** to enter the addresses for DNS1 (primary DNS server) and, if necessary, DNS2 (secondary DNS server) manually, and then tap "OK".

To configure network settings automatically using RA

KX-HDV130/KX-HDV230

[In standby mode]

1. 
2. / : "System Settings" → **OK**
3. / : "Network Settings" → **OK**
4. / : "IPv6 Settings" → **OK**
5. / : "RA" → **OK**
6. Enter the addresses for DNS1 (primary DNS server) and, if necessary, DNS2 (secondary DNS server) manually, and then press **OK**.

KX-HDV330/KX-HDV340/KX-HDV430

[In standby mode]

1. Tap /  → "System Settings"
2. Tap "Network Settings"
3. Tap /  → "IPv6 Settings"
4. Tap /  → "Connection Mode"
5. Select "RA" → "OK"
6. Enter the addresses for DNS1 (primary DNS server) and, if necessary, DNS2 (secondary DNS server) manually, and then tap "OK".

To configure network settings manually

KX-HDV130/KX-HDV230

[In standby mode]

1. 

2. [▲]/[▼]: "System Settings" → **OK**
3. [▲]/[▼]: "Network Settings" → **OK**
4. [▲]/[▼]: "IPv6 Settings" → **OK**
5. [▲]/[▼]: "Static" → **OK**
6. Enter the IP address, Prefix (for IPv6), Default Gateway, DNS1 (primary DNS server), and, if necessary, DNS2 (secondary DNS server), and then press **OK**.

KX-HDV330/KX-HDV340/KX-HDV430

[In standby mode]

1. Tap  → "System Settings"
2. Tap "Network Settings"
3. Tap  → "IPv6 Settings"
4. Tap  → "Connection Mode"
5. Select "Static" → "OK"
6. Enter the IP address, subnet mask, default gateway, DNS1 (primary DNS server), and, if necessary, DNS2 (secondary DNS server), and then tap "OK".

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 → 3 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 → 4 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 → 5 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**).

For details about additional features available with direct commands, see **3 Phone User Interface Programming**.

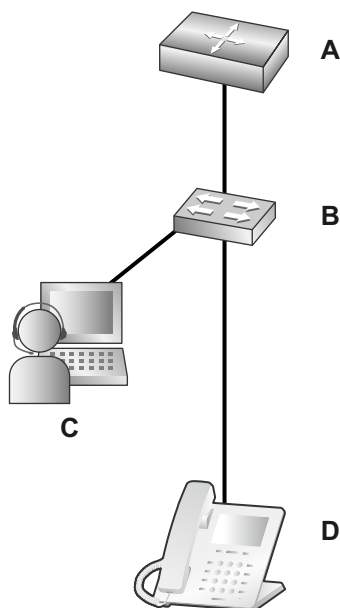
1.1.5.1 Changing the Language for Phone User Interface Programming

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 **4 Web User Interface Programming**.



- A. Router
- B. Switching Hub
- C. PC
- D. SIP Phone

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 **4.4.1 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® 7 or Windows 8 operating system
Web Browser	Windows Internet Explorer® 7, Windows Internet Explorer 8, Windows Internet Explorer 9, Windows Internet Explorer 10, Windows Internet Explorer 11 web browser, Firefox® (32.0.3), Google® Chrome™ (37.0.2062.103)
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

KX-HDV130/KX-HDV230

To open the unit's Web port
[In standby mode]

1. **MENU**
2. **[▲]/[▼]**: "Basic Settings" → **OK**
3. **[▲]/[▼]**: "Other Option" → **OK**
4. **[▲]/[▼]**: "Embedded Web" → **OK**
5. **[▲]/[▼]**: "On" for "Embedded Web" → **OK**

To close the unit's Web port
[In standby mode]

1. 
2. : "Basic Settings" → 
3. : "Other Option" → 
4. : "Embedded Web" → 
5. : "Off" for "Embedded Web" → 

Note

The "Embedded Web" settings can also be configured with the following procedure.
Press the  button when the unit is in standby mode.

1. : "System Settings" → 
2. : "Network Settings" → 
3. : "Embedded Web" → 

KX-HDV330/KX-HDV340/KX-HDV430

To open the unit's Web port
[In standby mode]

1. Tap  → "Basic Settings"
2. Tap  → "Other Option"
3. Tap "Embedded Web"
4. Select "On" → "OK"

To close the unit's Web port
[In standby mode]

1. Tap  → "Basic Settings"
2. Tap  → "Other Option"
3. Tap "Embedded Web"
4. Select "Off" → "OK"

Note

The "Embedded Web" settings can also be configured with the following procedure.
When the unit is in standby mode,

1. Tap  → "System Settings"
2. Tap  → "Network Settings"
3. Tap  → "Embedded Web"

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 **5.3.8 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)	• When logged in as User, you can change the password for the User account (→ see 4.4.2 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	• When logged in as Administrator, you can change the password for both the User and Administrator accounts (→ see 4.4.3 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 **5.3.8 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-HDV130/KX-HDV230

1. 
2. /
3. /
4. /
5. /

KX-HDV330/KX-HDV340/KX-HDV430 [In standby mode]

1. Tap / → "System Settings"
2. Tap "Status"
3. Tap / → "IPv4 Settings"/"IPv6 Settings"
4. Tap "IP Address"^{*1}

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

Notice

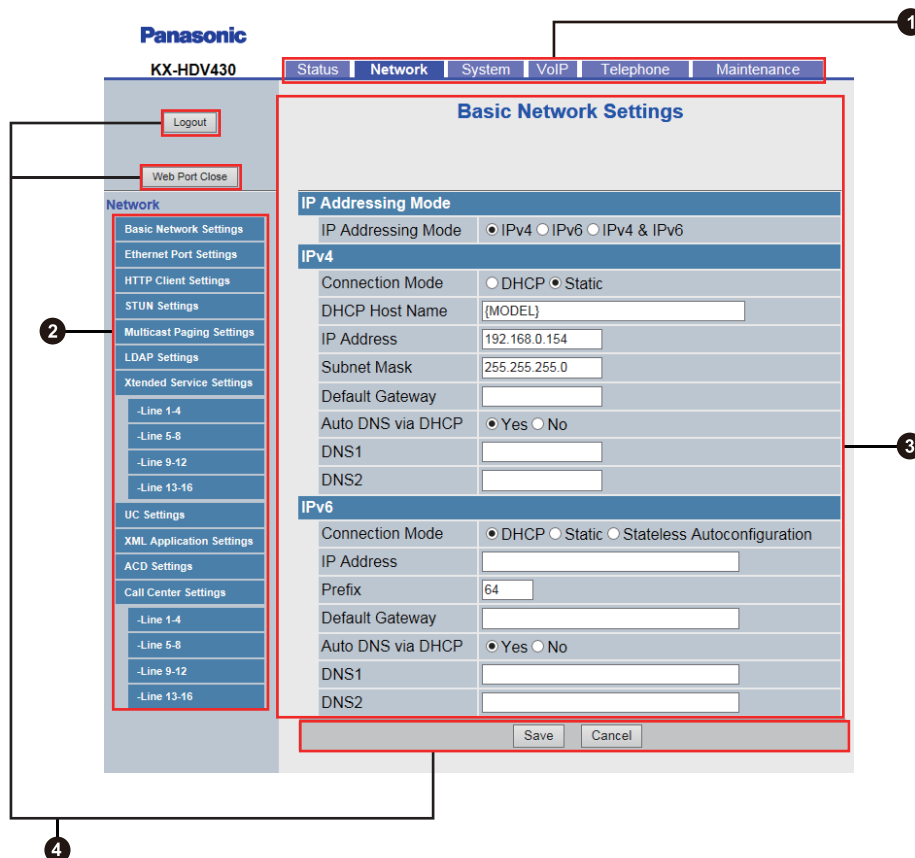
- The default ID for the User account is "user", and the default password is blank. The ID cannot be changed from the Web user interface, but it can be changed through configuration file programming.
- When you log in as User to the Web user interface for the first time, the **[User Password Settings]** screen (→ see **4.4.2 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]**.

^{*1} IPv6 only

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 **4.2 Status** to **4.7.6 Restart**.

4 Buttons

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

Button	Function
Logout	Logs out of the Web user interface.

Button	Function
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).
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).
 - With IPv6, you can enter the IP address using dotted-decimal notation (i.e., "n:n:n:n:n:n:n:n" where n=0–FFFF, abbreviation available).
- 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]/`
- Display Name field (→ see **[Display Name]** in **4.6.2.1 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 4.6.8 Export Phonebook
Failed (Parameter Error)	The operation failed because: Some specified values are out of range or invalid.	All screens
Failed (Memory Access Failure)	The operation failed because: Access error to the flash memory occurred while reading or writing the data.	All screens
Failed (Transfer Failure) ^{*1}	The operation failed because: A network error occurred during the data transmission.	All screens
Failed (Busy)	The operation failed because: The unit is in an operation that accesses the flash memory of the unit.	All screens
	- 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.	4.6.7 Import Phonebook 4.6.8 Export Phonebook
Failed (Canceled)	The operation failed because: While transferring the phonebook data, the connection with the unit was interrupted.	4.6.7 Import Phonebook 4.6.8 Export Phonebook
Failed (Invalid File)	The operation failed because: Analysis of the received data failed.	4.6.7 Import Phonebook
Failed (File Size Error)	The operation failed because: The size of the imported phonebook is too large.	4.6.7 Import Phonebook
No Data	The operation failed because: The imported phonebook file contains no valid phonebook entries.	4.6.7 Import Phonebook
	No phonebook entry is registered in the export source the unit.	4.6.8 Export Phonebook

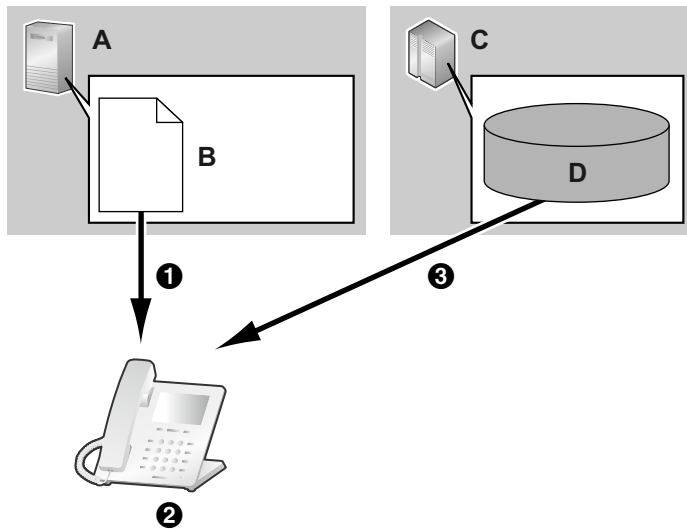
*1 "Failed (Transfer Failure)" may not be displayed depending on your Web browser.

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 **7 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-HDV130

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

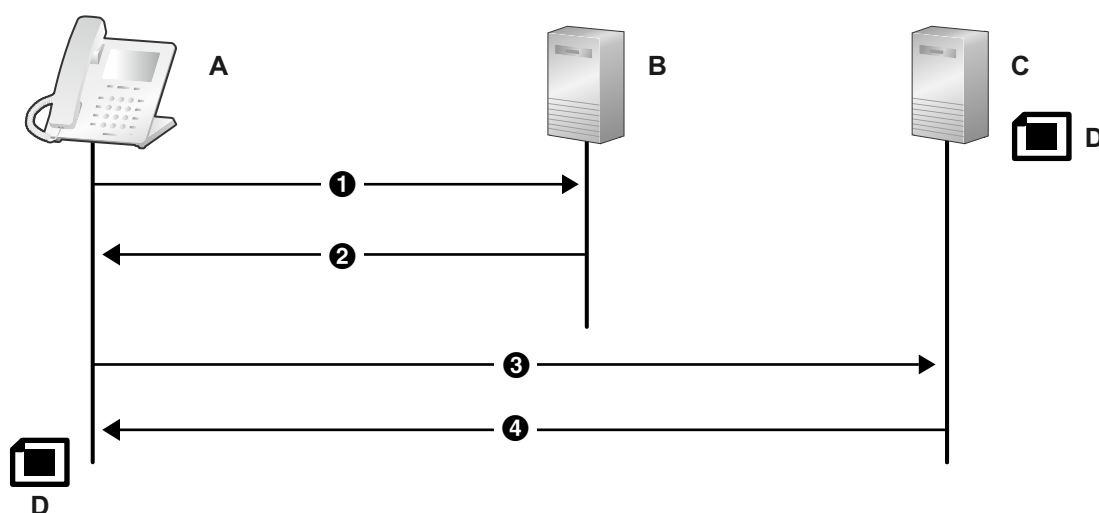
Note

- 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. SIP Phone
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

2.1.5 Obtaining a Provisioning Server Address from DHCP Options

CFG_MASTER_FILE_PATH

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

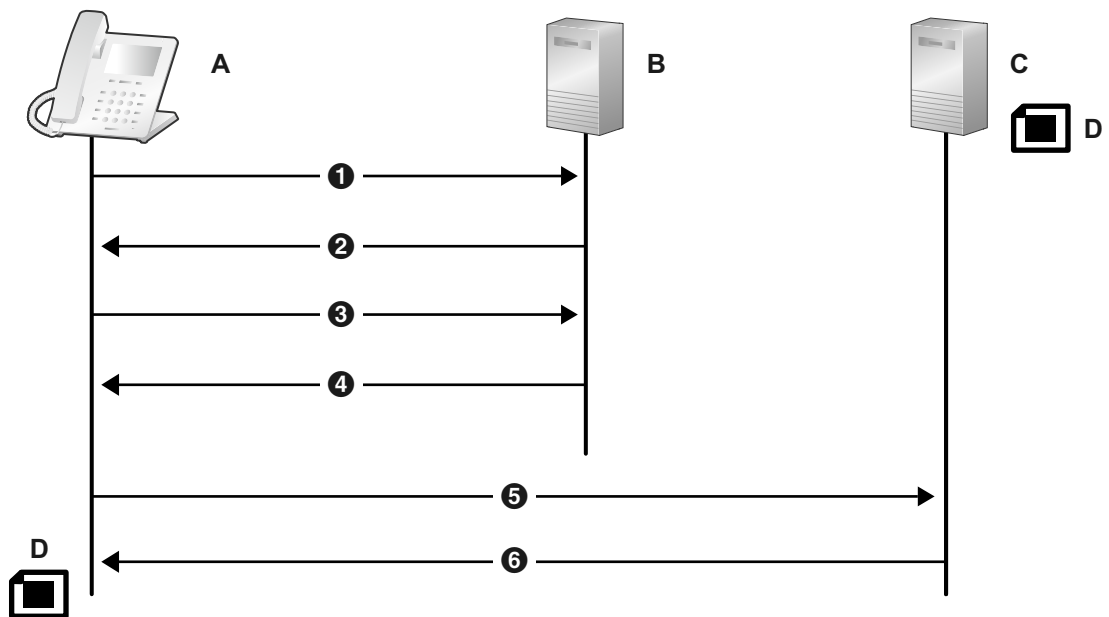
a. Basic Sequence

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. SIP Phone
- B. DHCP Server
- C. Pre-provisioning Server
- D. KX-HDVx30.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)
```

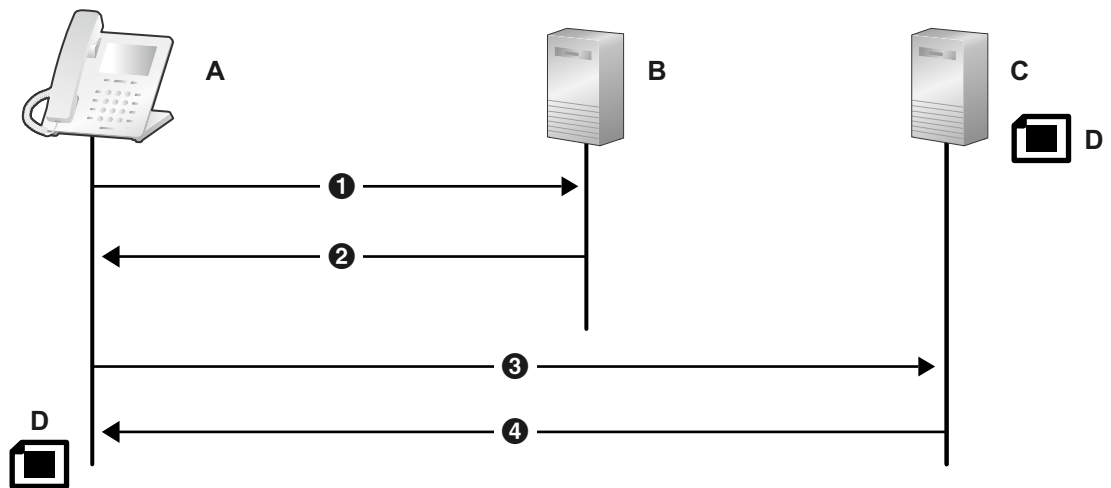
4. Case 4: Server name
tftp://10.0.0.1 (tftp://10.0.0.1/{MODEL}.cfg)
tftp://prov.com (tftp://prov.com/{MODEL}.cfg)

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. SIP Phone
- B. DHCP Server
- C. Pre-provisioning Server
- D. KX-HDVx30.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 **5 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	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. Example of the configuration file's URL: http://prov.example.com/Panasonic/ConfigCommon.cfg
Product configuration file	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. 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. Example of the configuration file's URL: http://prov.example.com/Panasonic/Config{MODEL}.cfg Note When a unit requests the configuration file, "{MODEL}" is replaced by the model name of the unit.
Standard configuration file	Configure settings that are unique to each unit, such as the phone number, user ID, password, etc. The same number of configuration files as units are stored on the provisioning server, and each unit downloads the corresponding standard configuration file. Example of the configuration file's URL: http://prov.example.com/Panasonic/Config{MAC}.cfg Note 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

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

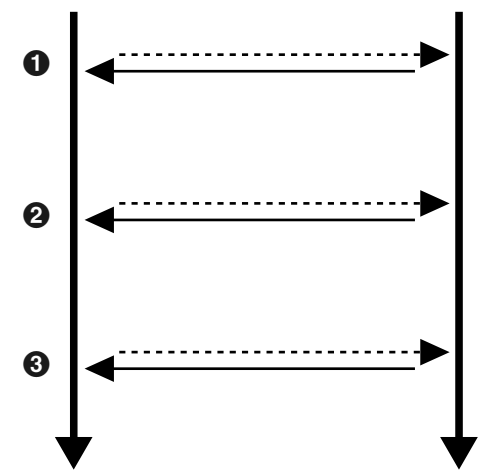
A unit downloads configuration files when it starts up, at regular intervals, and when directed to do so by the server.

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

Download Timing	Explanation
At regular intervals of time	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). CFG_CYCLIC_INTVL="4320" A B 1 2 3 1 2 3 Power on 3 days later 6 days later ---▶ : Check ◀ : Download

2.2.4 Downloading Configuration Files

Download Timing	Explanation
	The configuration files are downloaded periodically under the following conditions: • In the configuration file, add the line, <code>CFG_CYCLIC="Y"</code>. – Set an interval (minutes) by specifying "<code>CFG_CYCLIC_INTVL</code>". • In the Web user interface: – Click the [Maintenance] tab, click [Provisioning Maintenance], and then select [Yes] for [Cyclic Auto Resync]. – Enter an interval (minutes) in [Resync Interval]. Note • 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	After the unit is powered on, it will download configuration files once per day at the specified time. CFG_RESYNC_TIME="02:00" A  B   A. SIP Phone B. Provisioning Server ① power on at 12:00 ② 02:00 ③ 02:00 ---▶ : Check ← : Download • In the configuration file: – Set a time by specifying "CFG_RESYNC_TIME". • In the Web user interface: – Click the [Maintenance] tab, click [Provisioning Maintenance], and then enter the time in [Time Resync]. Note • The time is specified using a 24-hour clock ("00:00" to "23:59").

2.2.5 Provisioning Server Setting Example

Download Timing	Explanation
When directed	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. • In the configuration file: – Specify the special event text in "CFG_RESYNC_FROM_SIP". • In the Web user interface: – Click the [Maintenance] tab, click [Provisioning Maintenance], and then enter the special event text in [Header Value for Resync Event]. Generally, "check-sync" or "resync" is set as the special event text.

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	• 0080F0111111 • 0080F0222222
URL of the configuration files	Configure the following 2 settings either by pre-provisioning or through the Web user interface. The values of both settings must be the same. • CFG_STANDARD_FILE_PATH="http://prov.example.com/Panasonic/Config{MAC}.cfg" • CFG_MASTER_FILE_PATH="http://prov.example.com/Panasonic/ConfigCommon.cfg"
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	Store the following configuration files in the "Panasonic" directory. • Contains the common settings for the 2 units: – ConfigCommon.cfg • Contains the settings unique to each unit: – 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
```

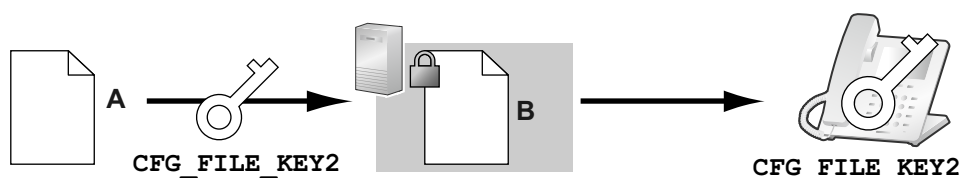
2.2.6 Encryption

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.

2.3 Priority of Setting Methods

- 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.

Extension of Configuration File	Configuration File Parameters Used for Decrypting
".e2c"	CFG_FILE_KEY2
".e3c"	CFG_FILE_KEY3
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

Priority	Setting Method	
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:

2.4 Configuration File Specifications

"VM_NUMBER_1": for line 1,
"VM_NUMBER_2": for line 2 (For KX-HDV130)
, ..., "VM_NUMBER_6": for line 6 (For KX-HDV230)
, ..., "VM_NUMBER_12": for line 12 (For KX-HDV330)
, ..., "VM_NUMBER_4": for line 4 (For KX-HDV340)
, ..., "VM_NUMBER_16": for line 16 (For KX-HDV430)

Note

- The number of lines available varies depending on the phone being used, as follows:
 - KX-HDV130: 1–2
 - KX-HDV230: 1–6
 - KX-HDV330: 1–12
 - KX-HDV340: 1–4
 - KX-HDV430: 1–16
- Some parameter values can be specified as "empty" to set the parameter values to empty.
Example:
`NTP_ADDR=" "`
- 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 "5.1 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

- In the configuration file, set IP Addressing Mode to IPv4 and Read-Only
Example parameter: IP_ADDR_MODE?**R**="0" ("0": IPv4)
- 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="2"
```

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:

- ❶ 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 #".
- ❷ Comment lines start in the middle of the lines.

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

Phone User Interface Programming

This section explains how to configure the unit by entering direct commands through the phone user interface.

3.1 Phone User Interface Programming

This section provides information about the features that can be configured directly from the unit.

3.1.1 Configuring the Network Settings of the Unit

You can configure the Network Settings directly from the unit.
(→ see **Configuring the Network Settings of the Unit**).

3.1.2 Opening/Closing the Web Port

To access the Web user interface, you must open the unit's Web port beforehand.
(→ see **Opening/Closing the Web Port**).

Section 4

Web User Interface Programming

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

4.1 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	Version Information	Model	✓	✓	page 61
		Operating Bank (For KX-HDV230)	✓	✓	page 62
		IPL Version	✓	✓	page 62
		Firmware Version	✓	✓	page 62
Network Status	Network Common	MAC Address	✓	✓	page 63
		Ethernet Link Status	✓	✓	page 63
		IP Address Mode	✓	✓	page 63
	IPv4	Connection Mode	✓	✓	page 63
		IP Address	✓	✓	page 63
		Subnet Mask	✓	✓	page 63
		Default Gateway	✓	✓	page 63
		DNS1	✓	✓	page 64
		DNS2	✓	✓	page 64
	IPv6	Connection Mode	✓	✓	page 64
		IP Address	✓	✓	page 64
		Prefix	✓	✓	page 64
		Default Gateway	✓	✓	page 64
		DNS1	✓	✓	page 65
		DNS2	✓	✓	page 65
	VLAN	Setting Mode	✓	✓	page 65
		LAN Port VLAN ID	✓	✓	page 65
		LAN Port VLAN Priority	✓	✓	page 65
		PC Port VLAN ID	✓	✓	page 65
		PC Port VLAN Priority	✓	✓	page 65

Menu Item	Section Title	Setting	Access Level ^{*1}		Ref.
			U	A	
VoIP Status	VoIP Status	Line No.	✓	✓	page 66
		Phone Number	✓	✓	page 66
		VoIP Status	✓	✓	page 66

^{*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	IP Addressing Mode	IP Addressing Mode ^{*2}		✓	page 68
		IPv4		✓	page 68
	IPv4	Connection Mode ^{*2}		✓	page 68
		DHCP Host Name ^{*3}		✓	page 68
		IP Address ^{*2}		✓	page 69
		Subnet Mask ^{*2}		✓	page 69
		Default Gateway ^{*2}		✓	page 69
		Auto DNS via DHCP ^{*2}		✓	page 69
		DNS1 ^{*2}		✓	page 70
		DNS2 ^{*2}		✓	page 70
	IPv6	Connection Mode ^{*2}		✓	page 70
		IP Address ^{*2}		✓	page 70
		Prefix ^{*2}		✓	page 71
		Default Gateway ^{*2}		✓	page 71
		Auto DNS via DHCP ^{*2}		✓	page 71
		DNS1 ^{*2}		✓	page 71
		DNS2 ^{*2}		✓	page 71
Ethernet Port Settings	Link Speed/Duplex Mode	LAN Port ^{*2}		✓	page 72
		PC Port ^{*2}		✓	page 73
	LLDP	Enable LLDP ^{*2}		✓	page 73
		Packet Interval ^{*3}		✓	page 73
		PC VLAN ID ^{*2}		✓	page 73
		PC Priority ^{*2}		✓	page 74
	CDP	Enable CDP ^{*2}		✓	page 74
		Packet Interval ^{*2}		✓	page 74

4.1 Web User Interface Setting List

Menu Item	Section Title	Setting	Access Level ¹		Ref.
			U	A	
	VLAN	Enable VLAN ²		✓	page 74
		IP Phone VLAN ID ²		✓	page 74
		IP Phone Priority ²		✓	page 75
		PC VLAN ID ²		✓	page 75
		PC Priority ²		✓	page 75
HTTP Client Settings	HTTP Client	HTTP Version ³		✓	page 76
		HTTP User Agent ³		✓	page 76
		Authentication ID ²		✓	page 76
		Authentication Password ²		✓	page 76
	Proxy Server	Enable Proxy ³		✓	page 77
		Proxy Server Address ³		✓	page 77
		Proxy Server Port ³		✓	page 77
STUN Settings	STUN	Server Address ³		✓	page 78
		Port ³		✓	page 78
		Binding Interval ³		✓	page 78
Multicast Paging Settings	Multicast Paging	Group 1–5	–	–	–
		- IPv4 Address ³		✓	page 79
		- IPv6 Address ³		✓	page 79
		- Port ³		✓	page 79
		- Priority ³ (Group 1–3 only)		✓	page 79
		- Label ³		✓	page 79
		- Enable Transmission ³		✓	page 79
LDAP Settings	LDAP	Enable LDAP ³		✓	page 80
		Server Address ³		✓	page 80
		Port ³		✓	page 81
		User ID ³		✓	page 81
		Password ³		✓	page 81
		Max Hits ³		✓	page 81
		Name Filter ³		✓	page 81
		Number Filter ³		✓	page 82
		Name Attributes ³		✓	page 82
		Number Attributes ³		✓	page 82
		Distinguished Name(Base DN) ³		✓	page 82

Menu Item	Section Title	Setting	Access Level ¹		Ref.
			U	A	
		Enable DNS SRV lookup ³		✓	page 82
Xtended Service Settings	Xtended Service	Enable Xtended Service ³		✓	page 83
		Server Address ³		✓	page 83
		Port ³		✓	page 83
		Protocol ³		✓	page 83
		SIP Credentials ³		✓	page 84
	Xtended Service Settings [Line 1]–[Line n]	User ID ²		✓	page 84
		Password ²		✓	page 84
		Enable Phonebook ³		✓	page 85
		Phonebook Type ³		✓	page 85
		Group ³		✓	page 85
		GroupCommon ³		✓	page 85
		Enterprise ³		✓	page 86
		EnterpriseCommon ³		✓	page 86
		Personal ³		✓	page 86
		Enable Call Log ³		✓	page 87
		Enable Visual Voice Mail ³ (For KX-HDV330/ KX-HDV340/KX-HDV430)		✓	page 87
UC Settings	Presence Feature	Enable UC ³		✓	page 87
		Server Address ³		✓	page 88
		Local XMPP Port ³		✓	page 88
		User ID ²		✓	page 88
		Password ²		✓	page 88
XML Application Settings	XML Application	Enable XMLAPP ³		✓	page 89
		User ID ³		✓	page 89
		Password ³		✓	page 89
		Local XML Port ³		✓	page 90
		Bootup URL ³		✓	page 90
		Initial URL ³		✓	page 90
		Incoming Call URL ³		✓	page 90
		Talking URL ³		✓	page 90
		Making Call URL ³		✓	page 90
		Call Log URL ³		✓	page 91

4.1 Web User Interface Setting List

Menu Item	Section Title	Setting	Access Level ^{*1}		Ref.
			U	A	
	Shortcut Key Settings (For KX-HDV130/ KX-HDV230)	Idling URL ^{*3}		✓	page 91
		Enable FF Key ^{*3}		✓	page 91
		Soft Key A (Left) ^{*3}		✓	page 91
		Soft Key B (Center) ^{*3}		✓	page 91
		Soft Key C (Right) ^{*3}		✓	page 92
		LDAP URL ^{*3}		✓	page 92
		User ID ^{*3}		✓	page 92
		Password ^{*3}		✓	page 92
		Max Hits ^{*3}		✓	page 92
ACD Settings	ACD Settings	Line 1–n	–	–	–
		Enable ACD ^{*3}		✓	page 93
Call Center Settings	Call Center Settings	Line 1–n	–	–	–
		Enable Call Center ^{*3}		✓	page 94
		Disposition Code ^{*3}		✓	page 94
		Customer Originated Trace ^{*3}		✓	page 94
		Hoteling Event ^{*3}		✓	page 95
		- User ID ^{*2}		✓	page 95
		- Password ^{*2}		✓	page 95
		Status Event ^{*3}		✓	page 95
TWAMP Settings	TWAMP	Enable TWAMP ^{*3}		✓	page 96
		Control Port ^{*3}		✓	page 96
		Test Port ^{*3}		✓	page 96
		Wait Time for Control ^{*3}		✓	page 97
		Wait Time for Reflector ^{*3}		✓	page 97

^{*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	
Language Settings	Selectable Language	IP Phone ^{*3}		✓	page 98
		Web Language ^{*3}		✓	page 99
	Language Settings	IP Phone ^{*3}	✓	✓	page 100
		Web Language ^{*3}	✓	✓	page 100
User Password Settings	User Password	Current Password	✓	✓	page 101
		New Password ^{*3}	✓	✓	page 101
		Confirm New Password	✓	✓	page 102
Admin Password Settings	Admin Password	Current Password		✓	page 102
		New Password ^{*3}		✓	page 103
		Confirm New Password		✓	page 103
Time Adjust Settings	Synchronization (Synchronisation)	Server Address ^{*3}		✓	page 104
		Synchronization Interval (Synchronisation Interval) ^{*3}		✓	page 104
	Time Zone	Time Zone ^{*3}		✓	page 104
	Daylight Saving Time (Summer Time)	Enable DST (Enable Summer Time) ^{*3}		✓	page 104
		DST Offset (Summer Time Offset) ^{*3}		✓	page 104
	Start Day and Time of DST (Start Day and Time of Summer Time)	Month ^{*3}		✓	page 105
		Day of Week		✓	page 105
		Time ^{*3}		✓	page 106
	End Day and Time of DST (End Day and Time of Summer Time)	Month ^{*3}		✓	page 106
		Day of Week		✓	page 106
		Time ^{*3}		✓	page 107
Advanced Settings	Soft Key during IDLE Status (For KX-HDV130/ KX-HDV230)	Soft Key A (Left) ^{*3}		✓	page 108
		Soft Key B (Center) ^{*3}		✓	page 108
		Soft Key C (Right) ^{*3}		✓	page 109
	IP Phone	Enable Admin Ability ^{*3}		✓	page 109
		Enable IP Phone Lock ^{*3}		✓	page 109
		Password for Unlocking ^{*3}		✓	page 109
		Missed Call Notification	—	—	—
		- Message ^{*2}		✓	page 110

4.1 Web User Interface Setting List

Menu Item	Section Title	Setting	Access Level ^{*1}		Ref.
			U	A	
		- LED ^{*2}		✓	page 110
		Voice Message Notification	—	—	—
		- Message ^{*2}		✓	page 110
		- LED ^{*2}		✓	page 110
		- Alarm ^{*2}		✓	page 111
		Network Camera Notification (For KX-HDV430)	—	—	—
		- Message ^{*2}		✓	page 111
		- LED ^{*2}		✓	page 111
		- Alarm ^{*2}		✓	page 112
Import Display File (For KX-HDV330/KX-HDV340/KX-HDV430)	Import Display File	File Name	✓	✓	page 112
Wait Time (For KX-HDV330/KX-HDV340/KX-HDV430)	Wait Time	Wait Time ^{*2}	✓	✓	page 112
Communication Camera (For KX-HDV430)	Communication Camera Settings [No. 1]–[No. 16]	Phone Number ^{*2}		✓	page 113
		Name ^{*2}		✓	page 114
		Ringtone [1 - 32] ^{*2}		✓	page 114

^{*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.

VoIP

Menu Item	Section Title	Setting	Access Level ^{*1}		Ref.
			U	A	
SIP Settings	User Agent	User Agent ^{*2}		✓	page 115
	NAT Identity	Enable Rport (RFC 3581) ^{*2}		✓	page 115
		Enable Port Punching for SIP ^{*2}		✓	page 115
		Enable Port Punching for RTP ^{*2}		✓	page 116

Menu Item	Section Title	Setting	Access Level ¹		Ref.
			U	A	
SIP Settings [Line 1]–[Line n]	Advanced	TLS Port Random ²		✓	page 116
		UDP Port Random ²		✓	page 116
	Basic	Phone Number ²		✓	page 117
		Registrar Server Address ²		✓	page 117
		Registrar Server Port ²		✓	page 117
		Proxy Server Address ²		✓	page 118
		Proxy Server Port ²		✓	page 118
		Presence Server Address ²		✓	page 118
		Presence Server Port ²		✓	page 118
		Outbound Proxy Server Address ²		✓	page 118
		Outbound Proxy Server Port ²		✓	page 118
		Service Domain ²		✓	page 119
		Authentication ID ²		✓	page 119
		Authentication Password ²		✓	page 119
	Advanced	SIP Packet QoS (DSCP) ²		✓	page 119
		Enable DNS SRV lookup ²		✓	page 119
		SRV lookup Prefix for UDP ²		✓	page 120
		SRV lookup Prefix for TCP ²		✓	page 120
		SRV lookup Prefix for TLS ²		✓	page 120
		Local SIP Port ²		✓	page 121
		SIP URI ²		✓	page 121
		T1 Timer ²		✓	page 122
		T2 Timer ²		✓	page 122
		REGISTER Expires Timer ²		✓	page 122
		Enable Session Timer (RFC 4028) ²		✓	page 122
		Session Timer Method ²		✓	page 122
		Enable 100rel (RFC 3262) ²		✓	page 123
		Enable SSAF (SIP Source Address Filter) ²		✓	page 123
		Enable c=0.0.0.0 Hold (RFC 2543) ²		✓	page 123
		Transport Protocol ²		✓	page 124

4.1 Web User Interface Setting List

Menu Item	Section Title	Setting	Access Level ¹		Ref.
			U	A	
		TLS Mode ²		✓	page 124
VoIP Settings	RTP	RTP Packet Time ²		✓	page 125
		Minimum RTP Port Number ²		✓	page 125
		Maximum RTP Port Number ²		✓	page 125
		Telephone-event Payload Type ²		✓	page 125
	Voice Quality Report	Server Address ²		✓	page 125
		Port ²		✓	page 126
		Enable PUBLISH ²		✓	page 126
		Alert Report Trigger ²		✓	page 126
		Threshold MOS-LQ (Critical) ²		✓	page 126
		Threshold MOS-LQ (Warning) ²		✓	page 126
		Threshold Delay (Critical) ²		✓	page 127
		Threshold Delay (Warning) ²		✓	page 127
VoIP Settings [Line 1]–[Line n]	Basic	G.722	–	–	–
		- Enable ²		✓	page 128
		- Priority ²		✓	page 128
		PCMA	–	–	–
		- Enable ²		✓	page 129
		- Priority ²		✓	page 129
		G.729A	-	-	-
		- Enable ²		✓	page 129
		- Priority ²		✓	page 129
		PCMU	–	–	–
		- Enable ²		✓	page 129
		- Priority ²		✓	page 129
		DTMF Type		✓	page 130
	Advanced	RTP Packet QoS (DSCP) ²		✓	page 130
		RTCP Packet QoS (DSCP) ²		✓	page 130
		Enable RTCP ²		✓	page 130
		Enable RTCP-XR ²		✓	page 130
		RTCP&RTCP-XR Interval ²		✓	page 131
		SRTP Mode ²		✓	page 131

Menu Item	Section Title	Setting	Access Level ^{*1}		Ref.
			U	A	
		Enable Mixed SRTP & RTP by Conference ^{*2}		✓	page 131
		Enable Mixed SRTP & RTP by Transfer ^{*2}		✓	page 132

^{*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.

Telephone

Menu Item	Section Title	Setting	Access Level ^{*1}		Ref.
			U	A	
Call Control	Call Control	Send SUBSCRIBE to Voice Mail Server ^{*2}		✓	page 133
		Conference Server URI ^{*2}		✓	page 133
		First-digit Timeout ^{*2}		✓	page 133
		Inter-digit Timeout ^{*2}		✓	page 133
		Timer for Dial Plan ^{*2}		✓	page 133
		Enable # Key as delimiter ^{*2}		✓	page 134
		International Call Prefix ^{*2}		✓	page 134
		Country Calling Code ^{*2}		✓	page 134
		National Access Code ^{*2}		✓	page 134
		Default Line for Outgoing ^{*2}	✓	✓	page 134
		Call Park Number ^{*2}		✓	page 135
		Enable Call Park Key ^{*2}		✓	page 135
		Park Retrieve Number ^{*2}		✓	page 136
		Park Retrieve Soft Key ^{*2}		✓	page 136
		Directed Call Pickup ^{*2}		✓	page 136
		Group Call Pickup ^{*2}		✓	page 136
		Barge in ^{*2}		✓	page 136
		Private Hold ^{*2}		✓	page 137
	Emergency Call Phone Numbers	1–5 ^{*2}		✓	page 137
	Call Rejection Phone Numbers	1–30 ^{*4}	✓	✓	page 137

4.1 Web User Interface Setting List

Menu Item	Section Title	Setting	Access Level ¹		Ref.
			U	A	
Call Control [Line 1]–[Line n] ⁵	Call Features	Display Name ²		✓	page 138
		Voice Mail Access Number ²		✓	page 138
		Enable Anonymous Call ⁴	✓	✓	page 138
		Enable Block Anonymous Call ⁴	✓	✓	page 139
		Enable Do Not Disturb ³	✓	✓	page 139
		Enable Call Waiting ²		✓	page 139
		Enable Call Forwarding Always ³	✓	✓	page 139
		Forwarding Number (Always) ³	✓	✓	page 139
		Enable Call Forwarding Busy ³	✓	✓	page 140
		Forwarding Number (Busy) ³	✓	✓	page 140
		Enable Call Forwarding No Answer ³	✓	✓	page 140
		Forwarding Number (No Answer) ³	✓	✓	page 140
		Ring Counts (No Answer) ³	✓	✓	page 140
		Enable Shared Call ²		✓	page 140
		Enable Key Synchronization (Enable Key Synchronisation) ²		✓	page 141
		Enable Call Park Notification ²		✓	page 141
		Enable Click to Call ²		✓	page 141
		Enable Executive Setting ² (For KX-HDV330/KX-HDV340/KX-HDV430)		✓	page 141
		Enable Assistant Setting ² (For KX-HDV330/KX-HDV340/KX-HDV430)		✓	page 142
		MoH Server URI ²		✓	page 142
		Resource List URI ²		✓	page 142
Hotline Settings	Hotline	Dial Plan (max 1000 columns) ²		✓	page 142
		Call Even If Dial Plan Does Not Match ²		✓	page 142
Hotline Settings	Hotline	Enable ²		✓	page 143

Menu Item	Section Title	Setting	Access Level ^{*1}		Ref.
			U	A	
		Hotline Number ^{*2}	✓	✓	page 144
		Hotline Delay ^{*2}		✓	page 144
Program Key (For KX-HDV130)	Program Key	No. 1-2 ^{*4}	—	—	—
		Type ^{*4}	✓	✓	page 144
		Parameter ^{*4}	✓	✓	page 145
Flexible Key Settings (For KX-HDV230/ KX-HDV330/ KX-HDV340/ KX-HDV430)	Flexible Key Settings	No. 1–24 ^{*4}	—	—	—
		Type ^{*4}	✓	✓	page 145
		Parameter ^{*4}	✓	✓	page 146
		Label Name ^{*4}	✓	✓	page 146
Tone Settings	Dial Tone	Tone Frequencies		✓	page 147
		Tone Timings ^{*2}		✓	page 148
	Busy Tone	Tone Frequencies		✓	page 148
		Tone Timings ^{*2}		✓	page 148
	Ringing Tone	Tone Frequencies		✓	page 149
		Tone Timings ^{*2}		✓	page 149
	Stutter Tone	Tone Frequencies		✓	page 149
		Tone Timings ^{*2}		✓	page 150
	Reorder Tone	Tone Frequencies		✓	page 150
		Tone Timings ^{*2}		✓	page 150
Import Phonebook	Import Phonebook	File Name	✓	✓	page 151
Export Phonebook	Export Phonebook	—	✓	✓	page 152
Video Call Settings (For KX-HDV430)	Default Call Mode	Default Call Mode ^{*4}		✓	page 154
	Screen Mode	Screen Mode ^{*4}		✓	page 154
	Send Image	Send Image at Start ^{*4}		✓	page 155
	Rate Settings	Bit Rate ^{*4}		✓	page 155
		Bit Rate Use ^{*4}		✓	page 155

4.1 Web User Interface Setting List

Menu Item	Section Title	Setting	Access Level ^{*1}		Ref.
			U	A	
		Frame Rate ^{*4}		✓	page 155
		Image Size ^{*4}		✓	page 156
DSS Console (For KX-HDV230/ KX-HDV330/ KX-HDV340/ KX-HDV430)	DSS 1-5 Key	No. 1–200 ^{*4*6}	—	—	—
		Type ^{*4}	✓	✓	page 144
		Parameter ^{*4}	✓	✓	page 145
		Label Name ^{*4}	✓	✓	page 157

^{*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 phone user interface programming.

^{*4} This setting can also be configured through other programming methods (phone user interface programming or configuration file programming).

^{*5} The number of lines available varies depending on the phone being used.

^{*6} Each DSS console supports 40 keys. DSS console 1 uses keys 1-40, DSS console 2 uses keys 41-80, etc.

Maintenance

Menu Item	Section Title	Setting	Access Level ^{*1}		Ref.
			U	A	
Provisioning Maintenance	Provisioning Maintenance	Standard File URL ^{*2}		✓	page 158
		Product File URL ^{*2}		✓	page 158
		Master File URL ^{*2}		✓	page 159
		Cyclic Auto Resync ^{*2}		✓	page 159
		Resync Interval ^{*2}		✓	page 159
		Time Resync ^{*2}		✓	page 159
		Header Value for Resync Event ^{*2}		✓	page 160
Firmware Maintenance	Firmware Maintenance	Enable Firmware Update ^{*2}		✓	page 161
		Firmware File URL ^{*2}		✓	page 161
		Firmware Version ^{*2} (For KX-HDV330/KX-HDV340/KX-HDV430)		✓	page 161

Menu Item	Section Title	Setting	Access Level ^{*1}		Ref.
			U	A	
Upgrade Firmware (For KX-HDV130/ KX-HDV230)	Upgrade Firmware	Firmware File URL (For KX-HDV130) File Name (For KX-HDV230)		✓	page 161
Export Logging File	Export Logging File	Logging File Type		✓	page 163
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 163
Restart	Restart	Click [Restart] to proceed. Restarting will take a few moments.		✓	page 164

^{*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.

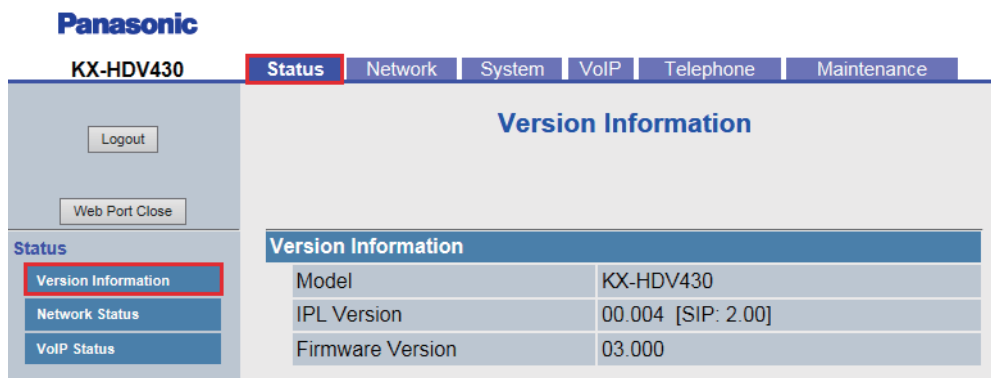
^{*2} This setting can also be configured through configuration file programming.

4.2 Status

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

4.2.1 Version Information

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



4.2.1.1 Version Information

Model

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

Operating Bank (For KX-HDV230)

Description	Indicates the storage area of the firmware that is currently operating (reference only).
Value Range	• 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	Firmware version ("nn.nnn" [n=0–9]) (For KX-HDV130/ KX-HDV330/KX-HDV340/KX-HDV430) Bank1 (Bank2): Firmware version ("nn.nnn" [n=0–9]) (For KX-HDV230)

4.2.2 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.

Panasonic
KX-HDV430

Logout
Web Port Close

Status
Version Information
Network Status
VoIP Status

Network Status

Refresh

Network Common	
MAC Address	080023F671E8
Ethernet Link Status	Connected
IP Address Mode	IPv4

IPv4	
Connection Mode	Static
IP Address	192.168.0.154
Subnet Mask	255.255.255.0
Default Gateway	
DNS1	
DNS2	

4.2.2.1 Network Common

MAC Address

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

Ethernet Link Status

Description	Indicates when either the Ethernet LAN port or the Ethernet PC port is connected (reference only).
Value Range	Connected

IP Address Mode

Description	Indicates the current IP Address Mode.
Value Range	• IPv4 • IPv6 • IPv4&IPv6

4.2.2.2 IPv4

Connection Mode

Description	Indicates whether the IP address of the unit is assigned automatically (DHCP) or manually (static) (reference only).
Value Range	• DHCP • Static

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 • 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 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 If the secondary DNS server address is not specified, this field will be left blank.
Value Range	IP address of the secondary DNS server

4.2.2.3 IPv6

Connection Mode

Description	Indicates whether the IP address of the unit is assigned automatically (DHCP) or manually (static) (reference only).
Value Range	- DHCP - Static - Stateless Autoconfiguration

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 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 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 If the secondary DNS server address is not specified, this field will be left blank.
Value Range	IP address of the secondary DNS server

4.2.2.4 VLAN

Setting Mode

Description	Indicates the specified VLAN feature (reference only).
Value Range	- Disable - LLDP - CDP - LLDP/CDP - Manual

LAN Port VLAN ID

Description	Indicates the VLAN ID (reference only) for the IP Phone.
Value Range	0–4094

LAN Port VLAN Priority

Description	Indicates the priority number (reference only) for the IP Phone.
Value Range	0–7

PC Port VLAN ID

Description	Indicates the VLAN ID (reference only) for the PC.
Value Range	0–4094

PC Port VLAN Priority

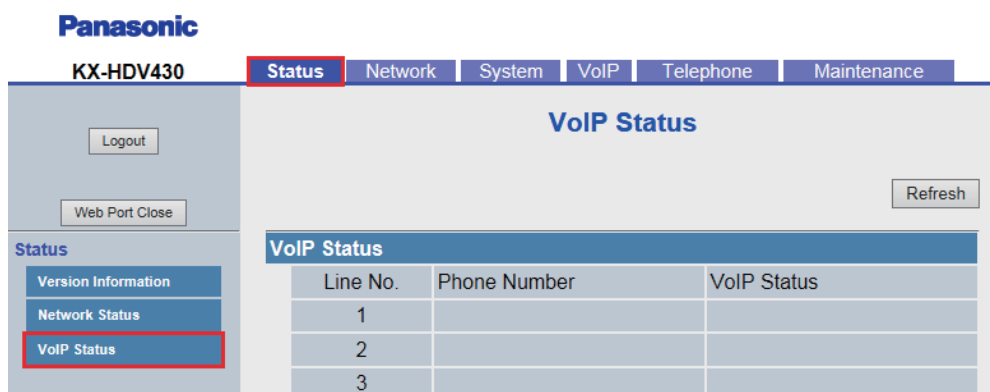
Description	Indicates the priority number (reference only) for the PC.
--------------------	--

4.2.3 VoIP Status

Value Range	0–7
-------------	-----

4.2.3 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.



4.2.3.1 VoIP Status

Line No.(1–n)^{*1}

Description	Indicates the line number to which a phone number is assigned (reference only).
Value Range	Line 1–Line n

^{*1} The number of lines available varies depending on the phone being used.

Phone Number

Description	Indicates the currently assigned phone numbers (reference only). Note 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).
-------------	--

Value Range	- 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. Note - 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.
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4.3 Network

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

4.3.1 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**).

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KX-HDV430

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

Extended Service Settings

-Line 1-4

-Line 5-8

-Line 9-12

-Line 13-16

Basic Network Settings

IP Addressing Mode

IP Addressing Mode ☒ IPv4 ☐ IPv6 ☐ IPv4 & IPv6

IPv4

Connection Mode	☐ DHCP ☒ Static
DHCP Host Name	{MODEL}
IP Address	192.168.0.154
Subnet Mask	255.255.255.0
Default Gateway	
Auto DNS via DHCP	☒ Yes ☐ No
DNS1	
DNS2	

4.3.1.1 IP Addressing Mode

IP Addressing Mode

Description	Selects the IP addressing mode.
Value Range	- IPv4 - IPv6 - IPv4&IPv6
Default Value	IPv4
Configuration File Reference	IP_ADDR_MODE

4.3.1.2 IPv4

Connection Mode

Description	Selects the IP address setting mode for IPv4.
Value Range	- DHCP - Static
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 This setting is available only when [Connection Mode] is set to [DHCP].
Value Range	Max. 64 characters Note - 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 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 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 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 This setting is available only when [Connection Mode] is set to [DHCP].
Value Range	- Yes: Use DNS obtained by DHCPv4 - No: Not use (use static DNS)
Default Value	Yes

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 secondary 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

4.3.1.3 IPv6

Connection Mode

Description	Selects the IP address setting mode for IPv6.
Value Range	- DHCP - Static - Stateless Autoconfiguration
Default Value	DHCP
Configuration File Reference	CONNECTION_TYPE_IPV6

IP Address

Description	Specifies the IP address for IPv6. Note 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=0-FFFF, abbreviation available]
Default Value	Not stored.
Configuration File Reference	STATIC_IP_ADDRESS_IPV6

Prefix

Description	Specifies the prefix for IPv6. Note 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 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=0-FFFF, 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 This setting is available only when [Connection Mode] is set to [DHCP].
Value Range	- 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=0-FFFF, 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.
--------------------	--

4.3.2 Ethernet Port Settings

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

4.3.2 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

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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
- Extended Service Settings
- Line 1-4
- Line 5-8
- Line 9-12
- Line 13-16
- UC Settings

Ethernet Port Settings

Link Speed/Duplex Mode	
LAN Port	Auto Negotiation
PC Port	Auto Negotiation
LLDP	
Enable LLDP	☒ Yes ☐ No
Packet Interval	30 seconds [1-3600]
PC	VLAN ID 0 [0-4094]
	Priority 0
CDP	
Enable CDP	☐ Yes ☒ No
Packet Interval	30 seconds [1-3600]
VLAN	
Enable VLAN	☐ Yes ☒ No

4.3.2.1 Link Speed/Duplex Mode

LAN Port

Description	Selects the connection mode (link speed and duplex mode) of the LAN port.
Value Range	- Auto Negotiation 100Mbps/Full Duplex 100Mbps/Half Duplex 10Mbps/Full Duplex 10Mbps/Half Duplex
Default Value	Auto Negotiation
Configuration File Reference	PHY_MODE_LAN

PC Port

Description	Selects the connection mode (link speed and duplex mode) of the PC port.
Value Range	• Auto Negotiation • 100Mbps/Full Duplex • 100Mbps/Half Duplex • 10Mbps/Full Duplex • 10Mbps/Half Duplex
Default Value	Auto Negotiation
Configuration File Reference	PHY_MODE_PC

4.3.2.2 LLDP

Enable LLDP

Description	Selects whether to enable or disable the LLDP-MED feature. Note • 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	• 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

PC VLAN ID

Description	Specifies the VLAN ID for the PC when LLDP is on.
Value Range	0–4094
Default Value	0
Configuration File Reference	LLDP_VLAN_ID_PC

PC Priority

Description	Specifies the VLAN Priority for the PC when LLDP is on.
Value Range	0–7
Default Value	0
Configuration File Reference	LLDP_VLAN_PRI_PC

4.3.2.3 CDP

Enable CDP

Description	Selects whether to enable the CDP feature.
Value Range	• 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

4.3.2.4 VLAN

Enable VLAN

Description	Selects whether to use the VLAN feature to perform VoIP communication securely. Note • 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	• Yes • No
Default Value	No
Configuration File Reference	VLAN_ENABLE

IP Phone VLAN ID

Description	Specifies the VLAN ID for the IP Phone.
-------------	---

Value Range	0–4094
Default Value	2
Configuration File Reference	VLAN_ID_IP_PHONE

IP Phone Priority

Description	Selects the priority for the IP Phone.
Value Range	0–7
Default Value	7
Configuration File Reference	VLAN_PRI_IP_PHONE

PC VLAN ID

Description	Specifies the VLAN ID for the PC.
Value Range	0–4094
Default Value	1
Configuration File Reference	VLAN_ID_PC

PC Priority

Description	Selects the priority for the PC.
Value Range	0–7
Default Value	0
Configuration File Reference	VLAN_PRI_PC

4.3.3 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.

Panasonic

KX-HDV430 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
- Extended Service Settings
- Line 1-4
- Line 5-8
- Line 9-12
- Line 13-16

HTTP Client Settings

HTTP Client	
HTTP Version	☒ HTTP/1.0 ☐ HTTP/1.1
HTTP User Agent	Panasonic_{MODEL}/{fwver} ({mac})
Authentication ID	
Authentication Password	
Proxy Server	
Enable Proxy	☐ Yes ☒ No
Proxy Server Address	
Proxy Server Port	8080 [1-65535]
Save Cancel	

4.3.3.1 HTTP Client

HTTP Version

Description	Selects which version of the HTTP protocol to use for HTTP communication.
Value Range	• HTTP/1.0 • HTTP/1.1 Note • For this unit, it is strongly recommended that you select [HTTP/1.0]. However, if the HTTP server does not function well with HTTP/1.0, try changing the setting [HTTP/1.1].
Default Value	HTTP/1.0
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 • 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.
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

4.3.3.2 Proxy Server

Enable Proxy

Description	Selects whether to enable or disable the HTTP proxy feature.
Value Range	• 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

4.3.4 STUN Settings

This screen allows you to change the STUN Settings.

Panasonic

KX-HDV430 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

STUN Settings

Server Address		
Port	3478	[1-65535]
Binding Interval	300	seconds [60-86400]

Save Cancel

4.3.4.1 STUN

STUN: Simple Traversal of UDP through NATs

4.3.5 Multicast Paging Settings

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

4.3.5 Multicast Paging Settings

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

Panasonic

KX-HDV430

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
- Extended Service Settings
- Line 1-4
- Line 5-8
- Line 9-12
- Line 13-16
- UC Settings
- XML Application Settings
- ACD Settings
- Call Center Settings

Multicast Paging Settings

Multicast Paging		
Group 5	IPv4 Address	[224.0.0.0-239.255.255.255]
	IPv6 Address	[FF00::/8]
	Port	0 [0-65535, 0:Disable]
	Label	
	Enable Transmission	☐ Yes ☒ No
Group 4	IPv4 Address	[224.0.0.0-239.255.255.255]
	IPv6 Address	[FF00::/8]
	Port	0 [0-65535, 0:Disable]
	Label	
	Enable Transmission	☐ Yes ☒ No

4.3.5.1 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.
--------------------	--

4.3.6 LDAP Settings

Value Range	• Yes • No
Default Value	No
Configuration File Reference	MPAGE_SEND_ENABLEm

4.3.6 LDAP Settings

This screen allows you to change the LDAP Settings.

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Logout

Web Port Close

Network

- Basic Network Settings
- Ethernet Port Settings
- HTTP Client Settings
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- LDAP Settings**
- Extended Service Settings
- Line 1-4
- Line 5-8
- Line 9-12
- Line 13-16
- UC Settings
- XML Application Settings
- ACD Settings
- Call Center Settings

LDAP Settings

Enable LDAP	☐ Yes ☒ No
Server Address	
Port	389 [1-65535]
User ID	
Password	
Max Hits	20 [20-500]
Name Filter	((cn=%)(sn=%))
Number Filter	((telephoneNumber=%)(mobile=%)(homePh
Name Attributes	cn,sn
Number Attributes	telephoneNumber,mobile,homePhone
Distinguished Name(Base DN)	
Enable DNS SRV lookup	☐ Yes ☒ No

Save Cancel

4.3.6.1 LDAP

Enable LDAP

Description	Selects whether to enable or disable the LDAP service.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	LDAP_ENABLE

Server Address

Description	Specifies the server host of LDAP.
-------------	------------------------------------

Value Range	Max. 256 characters Note • The LDAP server address should start with "ldap://" or "ldaps://".
Default Value	Not stored.
Configuration File Reference	LDAP_SERVER

Port

Description	Specifies the port of server.
Value Range	1–65535
Default Value	389
Configuration File Reference	LDAP_SERVER_PORT

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	LDAP_USERID

Password

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

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

Name Filter

Description	Specifies the name filter which is the search criteria for name look up.
Value Range	Max. 256 characters
Default Value	((cn=*)(sn=*))
Configuration File Reference	LDAP_NAME_FILTER

Number Filter

Description	Specifies the number filter which is the search criteria for number look up.
Value Range	Max. 256 characters
Default Value	((telephoneNumber=%)(mobile =%)(homePhone =%))
Configuration File Reference	LDAP_NUMB_FILTER

Name Attributes

Description	Specifies the name attributes of each record which are to be returned in the LDAP search result.
Value Range	Max. 256 characters
Default Value	cn,sn
Configuration File Reference	LDAP_NAME_ATTRIBUTE

Number Attributes

Description	Specifies the number attributes of each record which are to be returned in the LDAP search result.
Value Range	Max. 256 characters
Default Value	telephoneNumber,mobile,homePhone
Configuration File Reference	LDAP_NUMB_ATTRIBUTE

Distinguished Name(Base DN)

Description	Specifies the entry information on the screen.
Value Range	Max. 256 characters
Default Value	Not stored.
Configuration File Reference	LDAP_BASEDN

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	• Yes • No
Default Value	No
Configuration File Reference	LDAP_DNSSRV_ENABLE

4.3.7 Xtended Service Settings

This screen allows you to change the Xtended Service Settings.

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KX-HDV430

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
- Xtended Service Settings**
- Line 1-4

Xtended Service Settings

Xtended Service

Enable Xtended Service	☐ Yes ☒ No
Server Address	
Port	80 [1-65535]
Protocol	☒ HTTP ☐ HTTPS
SIP Credentials	☐ Yes ☒ No

Save Cancel

4.3.7.1 Xtended Service

Enable Xtended Service

Description	Selects whether to enable or disable the Xsi service.
Value Range	• 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	• Yes • No
Default Value	No
Configuration File Reference	XSI_SIP_CREDENTIALS_ENABLE

4.3.7.2 Xtended Service Settings [Line 1]–[Line n]

Note

Line n: The number of lines available varies depending on the phone being used.

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The screenshot displays the Panasonic KX-HDV430 web interface. At the top, the model number 'KX-HDV430' is shown next to navigation tabs: Status, Network (highlighted), System, VoIP, Telephone, and Maintenance. Below the tabs, there are buttons for 'Logout' and 'Web Port Close'. The left sidebar contains a 'Network' section with various settings links, including 'Xtended Service Settings' which is highlighted. Under 'Xtended Service Settings', there are links for '-Line 1-4', '-Line 5-8', '-Line 9-12', and '-Line 13-16'. The main content area is titled 'Xtended Service Settings [Line 1 - 4]' and shows configuration options for Line 1 and Line 2. For each line, the settings include: User ID (text input), Password (password input), Enable Phonebook (radio buttons for Yes/No), Phonebook Type (dropdown menu), Enable Call Log (radio buttons for Yes/No), and Enable Visual Voice Mail (radio buttons for Yes/No).

Note

This menu appears for KX-HDV330/KX-HDV340/KX-HDV430.

For KX-HDV130/KX-HDV230, this Line 1 - Line n setting dialog appears on previous Xtended Service Settings menu.

User ID

Description	Specifies the authentication ID required to access the Xsi server.
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	• Yes • No
Default Value	No
Configuration File Reference	XSI_PHONEBOOK_ENABLE_n

Phonebook Type

Description	Selects the type of Xsi phonebook.
Value Range	• Group • GroupCommon • Enterprise • EnterpriseCommon • Personal
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	• Yes • No Note • 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.
--------------------	---

4.3.7 Xtended Service Settings

Value Range	• Yes • No Note • 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	• Yes • No Note • 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	• Yes • No Note • 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.
Value Range	• Yes • No Note • 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	• Yes • No
Default Value	No
Configuration File Reference	XSI_CALLLOG_ENABLE_n

Enable Visual Voice Mail (For KX-HDV330/KX-HDV340/KX-HDV430)

Description	Selects whether to enable or disable the Visual Voice Mail feature of the selected line.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	XSI_VISUAL_VM_ENABLE_n (For KX-HDV330/KX-HDV340/KX-HDV430)

4.3.8 UC Settings

This screen allows you to change the UC Settings.

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KX-HDV430

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
- Xtended Service Settings
 - Line 1-4
 - Line 5-8
 - Line 9-12
 - Line 13-16
 - UC Settings**

UC Settings

Presence Feature

Enable UC	☐ Yes ☒ No
Server Address	
Local XMPP Port	5222 [1-65535]
User ID	
Password	

Save Cancel

4.3.8.1 Presence Feature

Enable UC

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

Value Range	• 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

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

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

4.3.9 XML Application Settings

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

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KX-HDV430

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Logout

Web Port Close

Network

- Basic Network Settings
- Ethernet Port Settings
- HTTP Client Settings
- STUN Settings
- Multicast Paging Settings
- LDAP Settings
- Extended Service Settings
 - Line 1-4
 - Line 5-8
 - Line 9-12
 - Line 13-16
- UC Settings
- XML Application Settings**

XML Application Settings

Enable XMLAPP	☐ Yes ☒ No
User ID	
Password	
Local XML Port	6666 [1-65535]
Bootup URL	
Initial URL	
Incoming Call URL	
Talking URL	
Making Call URL	
Call Log URL	
Idling URL	
Enable FF Key	☐ Yes ☒ No

4.3.9.1 XML Application

Enable XMLAPP

Description	Selects whether to enable or disable the XML application feature.
Value Range	• 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. 512 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

Bootup URL

Description	Specifies the URL that is accessed when the unit starts up, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Not stored.
Configuration File Reference	XMLAPP_START_URL

Initial URL

Description	Specifies the URL that is accessed when the application is started from the unit's menu, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Not stored.
Configuration File Reference	XMLAPP_INITIAL_URL

Incoming Call URL

Description	Specifies the URL that is accessed when the unit receives a call, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Not stored.
Configuration File Reference	XMLAPP_INCOMING_URL

Talking URL

Description	Specifies the URL that is accessed when the unit is on a call, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Not stored.
Configuration File Reference	XMLAPP_TALKING_URL

Making Call URL

Description	Specifies the URL that is accessed when the unit makes a call, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Not stored.
Configuration File Reference	XMLAPP_MAKECALL_URL

Call Log URL

Description	Specifies the URL that is accessed when the call log is accessed, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Not stored.
Configuration File Reference	XMLAPP_CALLLOG_URL

Idling URL

Description	Specifies the URL that is accessed when the unit is idle, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Not stored.
Configuration File Reference	XMLAPP_IDLING_URL

Enable FF Key

Description	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	XMLAPP_FFKEY_ENABLE

4.3.9.2 Shortcut Key Settings (For KX-HDV130/KX-HDV230)

Soft Key A (Left)

Description	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed during standby mode.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	XML_INITIATE_KEY_SOFT1 (For KX-HDV130/KX-HDV230)

Soft Key B (Center)

Description	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed during standby mode.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	XML_INITIATE_KEY_SOFT2 (For KX-HDV130/KX-HDV230)

Soft Key C (Right)

Description	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed during standby mode.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	XML_INITIATE_KEY_SOFT3 (For KX-HDV130/KX-HDV230)

4.3.9.3 XML Phonebook

LDAP URL

Description	Specifies the URL that is accessed when the phonebook is accessed, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
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. 512 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

4.3.10 ACD Settings [Line 1]–[Line n]

Note

Line n: The number of lines available varies depending on the phone being used.

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KX-HDV430

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Logout

Web Port Close

Network

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- STUN Settings
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- LDAP Settings
- Extended Service Settings
 - Line 1-4
 - Line 5-8
 - Line 9-12
 - Line 13-16
- UC Settings
- XML Application Settings
- ACD Settings**
- Call Center Settings

ACD Settings

Line 1	Enable ACD	☐ Yes ☒ No
Line 2	Enable ACD	☐ Yes ☒ No
Line 3	Enable ACD	☐ Yes ☒ No
Line 4	Enable ACD	☐ Yes ☒ No
Line 5	Enable ACD	☐ Yes ☒ No
Line 6	Enable ACD	☐ Yes ☒ No
Line 7	Enable ACD	☐ Yes ☒ No
Line 8	Enable ACD	☐ Yes ☒ No
Line 9	Enable ACD	☐ Yes ☒ No
Line 10	Enable ACD	☐ Yes ☒ No
Line 11	Enable ACD	☐ Yes ☒ No
Line 12	Enable ACD	☐ Yes ☒ No
Line 13	Enable ACD	☐ Yes ☒ No
Line 14	Enable ACD	☐ Yes ☒ No

Enable ACD

Description	Selects whether to enable the ACD.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	ACD_ENABLE_n

4.3.11 Call Center Settings [Line 1]–[Line n]

Note

Line n: The number of lines available varies depending on the phone being used.

4.3.11 Call Center Settings [Line 1]–[Line n]

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Logout

Web Port Close

Network

- Basic Network Settings
- Ethernet Port Settings
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- Line 9-12
- Line 13-16
- UC Settings
- XML Application Settings
- ACD Settings
- Call Center Settings**

Call Center Settings [Line 1 - 4]

Line	Setting	Value
Line 1	Enable Call Center	☐ Yes ☒ No
	Disposition Code	☐ Yes ☒ No
	Customer Originated Trace	☐ Yes ☒ No
	Hoteling Event	☐ Yes ☒ No
	- User ID	
	- Password	
Line 2	Status Event	☐ Yes ☒ No
	Enable Call Center	☐ Yes ☒ No
	Disposition Code	☐ Yes ☒ No
	Customer Originated Trace	☐ Yes ☒ No
	Hoteling Event	☐ Yes ☒ No
	- User ID	
- Password		

Enable Call Center

Description	Selects whether to add menu items for Call Center.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	CALL_CENTER_ENABLE_n

Disposition Code

Description	Selects whether to enable the Disposition Code.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	CC_DISPOSITION_CODE_ENABLE_n

Customer Originated Trace

Description	Selects whether to enable the Customer Originated Trace.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	CC_CUSTOMER_ORG_TRACE_ENABLE_n

Hoteling Event

Description	Selects whether to enable the Hoteling Event.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	CC_HOTELING_EVENT_n

- User ID

Description	Specifies the authentication ID required to access the Hoteling service.
Value Range	Max. 32 characters
Default Value	Not stored.
Configuration File Reference	HOTELING_USERID_n

- Password

Description	Specifies the authentication password required to access the Hoteling service.
Value Range	Max. 128 characters
Default Value	Not stored.
Configuration File Reference	HOTELING_PASSWORD_n

Status Event

Description	Selects whether to enable the Status Event.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	CC_STATUS_EVENT_ENABLE_n

4.3.12 TWAMP Settings

Panasonic
KX-HDV430

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
- Extended Service Settings
 - Line 1-4
 - Line 5-8
 - Line 9-12
 - Line 13-16
- UC Settings
- XML Application Settings
- ACD Settings
- Call Center Settings
 - Line 1-4
 - Line 5-8
 - Line 9-12
 - Line 13-16
- TWAMP Settings**

TWAMP Settings

Enable TWAMP	☐ Yes ☒ No
Control Port	862 [1-65535]
Test Port	9000 [1-65535]
Wait Time for Control	900 seconds [1-65535]
Wait Time for Reflector	900 seconds [1-65535]

Save Cancel

Enable TWAMP

Description	Selects whether to enable the TWAMP server function.
Value Range	• Yes • No
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

4.4 System

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

4.4.1 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.

4.4.1 Language Settings

Panasonic

KX-HDV430

Status Network **System** VoIP Telephone Maintenance

Logout

Web Port Close

System

- Language Settings**
- User Password Settings
- Admin Password Settings
- Time Adjust Settings
- Advanced Settings
- Import Display File
- Wait Time
- Communication Camera

Language Settings

Selectable Language	
IP Phone	en,de,es,fr,it,sv,nl,pt,cs RFC3066 code
Web Language	en,de,es,fr,it,nl,pt,cs RFC3066 code

Language Settings	
IP Phone	en ▼
Web Language	en ▼

Save Cancel

4.4.1.1 Selectable Language

IP Phone

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

Value Range	• 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

Web Language

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")
--------------------	--

4.4.1 Language Settings

Value Range	• 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

4.4.1.2 Language Settings

IP Phone

Description	Selects the default language on the unit. You can select a language from the languages set in IP Phone in 4.4.1.1 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, me → see IP Phone in 4.4.1.1 Selectable Language
Default Value	en
Configuration File Reference	DEFAULT_LANGUAGE

Web Language

Description	Selects the default language on the web. You can select a language from the languages set in Web Language in 4.4.1.1 Selectable Language .
Value Range	en, es, fr, de, it, nl, el, hu, pt, pl, sk, cs, sh, ru, uk, tr, ro, ct, kk, me → see Web Language in 4.4.1.1 Selectable Language

Default Value	en
Configuration File Reference	WEB_LANGUAGE

4.4.2 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.

Panasonic

The screenshot shows the Panasonic KX-HDV430 web interface. At the top, there are tabs for Status, Network, System (highlighted), VoIP, Telephone, and Maintenance. Below the tabs, the title 'User Password Settings' is displayed. On the left, a 'System' menu is visible with 'User Password Settings' highlighted. The main content area contains three input fields: 'Current Password', 'New Password' (with a note '6-64 characters'), and 'Confirm New Password'. At the bottom of the form are 'Save' and 'Cancel' buttons.

4.4.2.1 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 A hyphen (-) cannot be used as the first character.	

4.4.3 Admin Password Settings

Default Value	Not stored. Note 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.

4.4.3 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.

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 ("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.

Panasonic

The screenshot shows the Panasonic KX-HDV430 web interface. At the top, there are tabs for Status, Network, System (which is selected and highlighted in red), VoIP, Telephone, and Maintenance. Below the tabs, the title 'Admin Password Settings' is displayed. On the left side, there is a 'System' menu with options: Language Settings, User Password Settings, Admin Password Settings (highlighted with a red box), Time Adjust Settings, Advanced Settings, Import Display File, - Wait Time, and Communication Camera. The main content area contains the 'Admin Password' section with three input fields: 'Current Password', 'New Password' (with a '6-64 characters' hint), and 'Confirm New Password'. At the bottom of this section are 'Save' and 'Cancel' buttons.

4.4.3.1 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 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.

4.4.4 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.

Panasonic

KX-HDV430 Status Network **System** VoIP Telephone Maintenance

Logout

Web Port Close

System

- Language Settings
- User Password Settings
- Admin Password Settings
- Time Adjust Settings**
- Advanced Settings
- Import Display File
- Wait Time
- Communication Camera

Time Adjust Settings

Synchronisation

Server Address

Synchronisation Interval seconds [10-86400]

Time Zone

Time Zone

Summer Time

Enable Summer Time ☐ Yes ☒ No

Summer Time Offset minute(s) [0-720]

Start Day and Time of Summer Time

Month

Day of Week

Time minute(s) [0-1439]

4.4.4.1 Synchronization (Synchronisation)

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 (Synchronisation 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_INTVL

4.4.4.2 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

4.4.4.3 Daylight Saving Time (Summer Time)

Enable DST (Enable Summer Time)

Description	Selects whether to enable Daylight Saving Time (Summer Time).
Value Range	• 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

4.4.4.4 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	• 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	• 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	• 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

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

Month

Description	Selects the month in which DST (Summer Time) ends.
Value Range	• 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	• 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	• 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

4.4.5 Advanced Settings

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

4.4.5 Advanced Settings

Panasonic
KX-HDV430

Status Network **System** VoIP Telephone Maintenance

Logout
Web Port Close

System

- Language Settings
- User Password Settings
- Admin Password Settings
- Time Adjust Settings
- Advanced Settings**
- Import Display File
- Wait Time
- Communication Camera

Advanced Settings

IP Phone

Enable Admin Ability	☒ Yes ☐ No
Enable IP Phone Lock	☐ Yes ☒ No
Password for Unlocking	 [0000-9999]
Missed Call Notification	Message ☒ Yes ☐ No
	LED ☒ Yes ☐ No
Voice Message Notification	Message ☒ Yes ☐ No
	LED ☒ Yes ☐ No
	Alarm ☒ Yes ☐ No
Network Camera Notification	Message ☒ Yes ☐ No
	LED ☒ Yes ☐ No
	Alarm ☒ Yes ☐ No

Save Cancel

4.4.5.1 Soft Key during IDLE Status (For KX-HDV130/KX-HDV230)

Soft Key A (Left)

Description	Selects soft key (A) during IDLE state.
Value Range	• Phonebook • Menu • Outgoing Call Log • Incoming Call Log • Redial • Page (Used when performing Multicast Paging)
Default Value	Phonebook
Configuration File Reference	IDLE_SOFT_KEY_A (For KX-HDV130/KX-HDV230)

Soft Key B (Center)

Description	Selects soft key (B) during IDLE state.
Value Range	• Phonebook • Menu • Outgoing Call Log • Incoming Call Log • Redial • Page (Used when performing Multicast Paging)

Default Value	Menu
Configuration File Reference	IDLE_SOFT_KEY_B (For KX-HDV130/KX-HDV230)

Soft Key C (Right)

Description	Selects soft key (C) during IDLE state.
Value Range	• Phonebook • Menu • Outgoing Call Log • Incoming Call Log • Redial • Page (Used when performing Multicast Paging)
Default Value	Outgoing Call Log
Configuration File Reference	IDLE_SOFT_KEY_C (For KX-HDV130/KX-HDV230)

4.4.5.2 IP Phone

Enable Admin Ability

Description	Selects whether to enable admin rights for the unit.
Value Range	• Yes • No
Default Value	Yes
Configuration File Reference	ADMIN_ABILITY_ENABLE

Enable IP Phone Lock

Description	Selects whether to enable locking the unit.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	SYS_LOCK_ENABLE

Password for Unlocking

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

Missed Call Notification - Message

Description	Selects whether to display 'Missed Calls' on the screen in standby mode. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	- Yes - No
Default Value	Yes
Configuration File Reference	NOTIFY_MISSEDCALL_ENABLE

Missed Call Notification - LED

Description	Selects whether the LED is used to indicate a missed call. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	- Yes - No
Default Value	Yes
Configuration File Reference	NOTIFY_MISSEDCALL_LED_ENABLE

Voice Message Notification - Message

Description	Selects whether to display 'Voice MSG' on the screen in standby mode. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	- Yes - No
Default Value	Yes
Configuration File Reference	NOTIFY_VOICEMAIL_ENABLE

Voice Message Notification - LED

Description	Selects whether the LED is used to indicate a new voice message. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	- Yes - No

Default Value	Yes
Configuration File Reference	NOTIFY_VOICEMAIL_LED_ENABLE

Voice Message Notification - Alarm

Description	Selects whether an alarm sound is used to indicate a new voice message. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	- Yes - No
Default Value	Yes
Configuration File Reference	NOTIFY_VOICEMAIL_ALARM_ENABLE

Network Camera Notification - Message (For KX-HDV430)

Description	Selects whether to display the Network Camera message icon on the screen. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	- Yes - No
Default Value	Yes
Configuration File Reference	NOTIFY_NETWORKCAMERA_ENABLE (For KX-HDV430)

Network Camera Notification - LED (For KX-HDV430)

Description	Selects whether the LED is used to indicate a Network Camera alert. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	- Yes - No
Default Value	Yes
Configuration File Reference	NOTIFY_NETWORKCAMERA_LED_ENABLE (For KX-HDV430)

4.4.6 Import Display File (For KX-HDV330/KX-HDV340/KX-HDV430)

Network Camera Notification - Alarm (For KX-HDV430)

Description	Selects whether an alarm sound is used to indicate a Network Camera alert. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	- Yes - No
Default Value	Yes
Configuration File Reference	NOTIFY_NETWORKCAMERA_ALARM_ENABLE (For KX-HDV430)

4.4.6 Import Display File (For KX-HDV330/KX-HDV340/KX-HDV430)

This screen allows you to specify the file of the screen saver to import.

Panasonic

KX-HDV430 Status Network **System** VoIP Telephone Maintenance

Logout

Web Port Close

System

- Language Settings
- User Password Settings
- Admin Password Settings
- Time Adjust Settings
- Advanced Settings
- Import Display File**
- Wait Time
- Communication Camera

Import Display File

File Name 参照...

Import

4.4.6.1 Import Display File

File name

Description	Specifies the file of the screen saver to import.
Value Range	Max. 384 characters
Default Value	Not stored.

4.4.7 Wait Time (For KX-HDV330/KX-HDV340/KX-HDV430)

This screen allows you to specify the time to wait for the screen saver to display.

The screenshot shows the Panasonic KX-HDV430 web interface. The 'System' tab is selected. In the left sidebar, the 'Wait Time' option is highlighted. The main content area is titled 'Wait Time' and contains a form with a 'Wait Time' label, a dropdown menu set to '0', and the text 'seconds [0: Off]'. Below the form are 'Save' and 'Cancel' buttons.

4.4.7.1 Wait Time

Wait Time

Description	Specifies the time, in seconds, to wait for the screen saver to display.
Value Range	0, 10, 30, 60, 180, 300 (sec) [0:off]
Default Value	0

4.4.8 Communication Camera (For KX-HDV430)

This screen allows you to change the Communication Camera settings.

The screenshot shows the Panasonic KX-HDV430 web interface. The 'System' tab is selected. In the left sidebar, the 'Communication Camera' option is highlighted. The main content area is titled 'Communication Camera' and contains a table titled 'Communication Camera Settings'.

No.	Phone Number	Name	Ringtone [1 - 32]
1			10
2			10
3			10
4			10
5			10
6			10

4.4.8.1 Communication Camera Settings [No. 1]–[No. 16]

Phone Number

Description	Specifies the phone number of each Communication Camera.
Value Range	Max. 32 characters (except &, ", ', : , ; , < , >)

Default Value	Not stored.
Configuration File Reference	COMM_CAMERA_NUMBERx

Name

Description	Specifies the name of each Communication Camera.
Value Range	Max. 24 characters
Default Value	Not stored.
Configuration File Reference	COMM_CAMERA_NAMEx

Ringtone [1 - 32]

Description	Specifies the ringtone of each Communication Camera.
Value Range	1–32 (10: doorbell)
Default Value	10
Configuration File Reference	COMM_CAMERA_RINGTONE_SETTINGx

4.5 VoIP

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

4.5.1 SIP Settings

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

Panasonic
KX-HDV430

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

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

4.5.1.1 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 • 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

4.5.1.2 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	• 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_INTVL

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_INTVL

4.5.1.3 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 - This parameter applies to all lines that use SIP-TLS. - UDP/TCP ports are completely unaffected by this parameter.
Value Range	- 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 This parameter applies to all lines that use UDP.
Value Range	- 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

4.5.2 SIP Settings [Line 1]–[Line n]

Note

Line n: The number of lines available varies depending on the phone being used.

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

Panasonic

KX-HDV430

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

- Line 13

- Line 14

- Line 15

SIP Settings [Line 1]

Basic

Phone Number	
Registrar Server Address	192.168.0.101
Registrar Server Port	5070 [1-65535]
Proxy Server Address	192.168.0.101
Proxy Server Port	5070 [1-65535]
Presence Server Address	192.168.0.101
Presence Server Port	5070 [1-65535]
Outbound Proxy Server Address	
Outbound Proxy Server Port	5070 [1-65535]
Service Domain	
Authentication ID	
Authentication Password	

Advanced

SIP Packet QoS (DSCP)	0 [0-63]
-----------------------	---------------------------------------

4.5.2.1 Basic

Phone Number

Description	Specifies the phone number to use as the user ID required for registration to the SIP registrar server. Note 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

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

4.5.2.2 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	• Yes • No Note • 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 • 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 • 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 • 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.
Value Range	1024–49151
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) Note KX-HDV130 Line 1-2 KX-HDV230 Line 1-6 KX-HDV330 Line 1-12 KX-HDV340 Line 1-4 KX-HDV430 Line 1-16
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". Note - 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	• 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	• 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	• INVITE • UPDATE • INVITE/UPDATE
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	• Yes • No Note • 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	• Yes • No
Default Value	No
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	• Yes • No Note • 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	• UDP • TCP • TLS
Default Value	UDP
Configuration File Reference	SIP_TRANSPORT_n

TLS Mode

Description	Select the secure SIP protocol.
Value Range	• SIPS • SIP-TLS
Default Value	SIPS
Configuration File Reference	SIP_TLS_MODE_n

4.5.3 VoIP Settings

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

Panasonic

KX-HDV430

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
- Line 13
- Line 14
- Line 15
- Line 16
- VoIP Settings**
- Line 1

VoIP Settings

RTP

RTP Packet Time	20 milliseconds
Minimum RTP Port Number	16000 [1024-59598: Even Number Only]
Maximum RTP Port Number	20000 [1424-59998: Even Number Only]
Telephone-event Payload Type	101 [96-127]

Voice Quality Report

Server Address	
Port	5060 [1-65535]
Enable PUBLISH	Disable
Alert Report Trigger	☒ Warning ☐ Critical
Threshold MOS-LQ (Critical)	0 [0-40]
Threshold MOS-LQ (Warning)	0 [0-40]
Threshold Delay (Critical)	0 milliseconds [0-2000]
Threshold Delay (Warning)	0 milliseconds [0-2000]

Save Cancel

4.5.3.1 RTP

RTP Packet Time

Description	Selects the interval, in milliseconds, between transmissions of RTP packets.
Value Range	• 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 • This setting is available only when [DTMF Type] is set to [RFC2833].
Value Range	96–127
Default Value	101
Configuration File Reference	TELEVENT_PAYLOAD

4.5.3.2 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	• 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	• 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

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

4.5.4 VoIP Settings [Line 1]–[Line n]

Note

Line n: The number of lines available varies depending on the phone being used.

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

4.5.4 VoIP Settings [Line 1]–[Line n]

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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
- Line 13
- Line 14
- Line 15
- Line 16

VoIP Settings

- **Line 1**
- Line 2

VoIP Settings [Line 1]

Basic		
G.722	Enable	☒ Yes ☐ No
	Priority	1 [1-255]
PCMA	Enable	☒ Yes ☐ No
	Priority	1 [1-255]
G.729A	Enable	☒ Yes ☐ No
	Priority	1 [1-255]
PCMU	Enable	☒ Yes ☐ No
	Priority	1 [1-255]
DTMF Type		☒ RFC2833 ☐ Inband ☐ SIP INFO
Advanced		
RTP Packet QoS (DSCP)		0 [0-63]
RTCP Packet QoS (DSCP)		0 [0-63]
Enable RTCP		☐ Yes ☒ No
Enable RTCP-XR		☐ Yes ☒ No
RTCP&RTCP-XR Interval		5 seconds [5-65535]
SRTP Mode		RTP/SRTP
Enable Mixed SRTP&RTP by Conference		☐ Yes ☒ No
Enable Mixed SRTP&RTP by Transfer		☐ Yes ☒ No

4.5.4.1 Basic

G.722 Enable

Description	Selects whether to enable the G.722 codec for voice data transmission.
Value Range	• 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	• 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	• 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	• 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

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	• RFC2833 • Inband • SIP INFO Note • RFC2833 refers to Outband DTMF. • Inband refers to Inband DTMF.
Default Value	RFC2833
Configuration File Reference	DTMF_METHOD_n

4.5.4.2 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	• 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	• 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	• 0: SRTP • 1: RTP/SRTP • 2: Panasonic Original • 3: SRTP/RTP Note • 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	• 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	• Yes • No
Default Value	No
Configuration File Reference	SRTP_MIX_TRANSFER_ENABLE_n

4.6 Telephone

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

4.6.1 Call Control

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

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Logout

Web Port Close

Telephone

Call Control

- Line 1
- Line 2
- Line 3
- Line 4
- Line 5
- Line 6
- Line 7
- Line 8
- Line 9
- Line 10
- Line 11
- Line 12
- Line 13
- Line 14
- Line 15
- Line 16
- Hotline Settings
- Flexible Key Settings

Call Control

Send SUBSCRIBE to Voice Mail Server	☐ Yes ☒ No
Conference Server URI	
First-digit Timeout	30 seconds [1-600]
Inter-digit Timeout	5 seconds [1-15]
Timer for Dial Plan	5 seconds [1-15]
Enable # Key as delimiter	☒ Yes ☐ No
International Call Prefix	
Country Calling Code	
National Access Code	
Default Line for Outgoing	Line 2 ▼
Call Park Number	
Enable Call Park Key	☐ Yes ☒ No
Park Retrieve Number	
Directed Call Pickup	
Group Call Pickup	
Barge in	
Private Hold	☐ Yes ☒ No

4.6.1.1 Call Control

Send SUBSCRIBE to Voice Mail Server

Description	Selects whether to send the SUBSCRIBE request to a voice mail server. Note Your phone system must support voice mail.
Value Range	- 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 Availability depends on your phone system.
Value Range	Max. 256 characters
Default Value	Not stored.
Configuration File Reference	CONFERENCE_SERVER_URI

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	• 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

Default Line for Outgoing

Description	Selects the line used to make an outgoing call when no line is specified in the dialing operation.
--------------------	--

Value Range	• Line 1 • Line 2 • Line 3 • Line 4 • Line 5 • Line 6 • Line 7 • Line 8 • Line 9 • Line 10 • Line 11 • Line 12 • Line 13 • Line 14 • Line 15 • Line 16 Note KX-HDV130 Line 1-2 KX-HDV230 Line 1-6 KX-HDV330 Line 1-12 KX-HDV340 Line 1-4 KX-HDV430 Line 1-16
Default Value	Line 1
Configuration File Reference	DEFAULT_LINE_SELECT

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	• 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 (For KX-HDV130/KX-HDV230)

Description	Selects whether to have soft key for the call park retrieving. Note 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).
Value Range	- Not Use - Soft Key A (Left) - Soft Key B (Center) - Soft Key C (Right)
Default Value	Not Use
Configuration File Reference	IDLE_SOFT_KEY_PARK_RETRIEVING (For KX-HDV130/KX-HDV230)

Directed Call Pickup

Description	Specifies the feature number assigned to a BLF for performing call pickup.
Value Range	0–4 digits (0–9, *, #)
Default Value	Not stored.
Configuration File Reference	NUM_PLAN_PICKUP_DIRECT

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

Barge in

Description	Specifies the feature number for performing barging in.
Value Range	0–4 digits (0–9, *, #)
Default Value	Not stored.
Configuration File Reference	NUM_PLAN_BARGE_IN

Private Hold

Description	Selects whether to enable or disable "Private Hold".
Value Range	• Yes • No
Default Value	No
Configuration File Reference	PRIVATE_HOLD_ENABLE

4.6.1.2 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

4.6.1.3 Call Rejection Phone Numbers

1–30

Description	Specifies the phone numbers to reject incoming calls from. A maximum of 30 phone numbers can be specified.
Value Range	Max. 32 characters (except &, ", ' , : , ; , < , >)
Default Value	Not stored.
Configuration File Reference	CALL_REJECTIONx

4.6.2 Call Control [Line 1]–[Line n]

Note

Line n: The number of lines available varies depending on the phone being used.

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

4.6.2 Call Control [Line 1]–[Line n]

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Telephone

Call Control

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- Line 7
- Line 8
- Line 9
- Line 10
- Line 11
- Line 12
- Line 13

Call Features

Display Name	
Voice Mail Access Number	
Enable Anonymous Call	☐ Yes ☒ No
Enable Block Anonymous Call	☐ Yes ☒ No
Enable Do Not Disturb	☐ Yes ☒ No
Enable Call Waiting	☒ Yes ☐ No
Enable Call Forwarding Always	☐ Yes ☒ No
Forwarding Number (Always)	
Enable Call Forwarding Busy	☐ Yes ☒ No
Forwarding Number (Busy)	
Enable Call Forwarding No Answer	☐ Yes ☒ No
Forwarding Number (No Answer)	

4.6.2.1 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 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 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.
--------------------	--

Value Range	• 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	• 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	• Yes • No
Default Value	No

Enable Call Waiting

Description	Selects whether to enable Call Waiting.
Value Range	• 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	• 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	• 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	• 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 • Availability depends on your phone system.
--------------------	--

Value Range	• Yes • No Note • 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 (Enable Key Synchronisation)

Description	Selects whether to synchronize the Do Not Disturb and Call Forward settings. Note • 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	• 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	• 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	• Yes • No
Default Value	No
Configuration File Reference	CLICKTO_ENABLE_n

Enable Executive Setting (For KX-HDV330/KX-HDV340/KX-HDV430)

Description	Selects whether to enable or disable the Executive Call Filtering feature of the selected line.
--------------------	---

4.6.2 Call Control [Line 1]–[Line n]

Value Range	• Yes • No
Default Value	No
Configuration File Reference	BS_EXECUTIVE_SETTING_ENABLE_n (For KX-HDV330/KX-HDV340/KX-HDV430)

Enable Assistant Setting (For KX-HDV330/KX-HDV340/KX-HDV430)

Description	Selects whether to enable the Executive-Assistant Call Filtering feature and the Executive-Assistant Divert feature of the selected line.
Value Range	• Yes • No
Default Value	No
Configuration File Reference	BS_ASSISTANT_SETTING_ENABLE_n (For KX-HDV330/KX-HDV340/KX-HDV430)

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

Resource List URI

Description	Specifies the URI for the resource list, which consists of "sip:", a user part, the "@" symbol, and a host part.
Value Range	Max. 256 characters
Default Value	Not stored.
Configuration File Reference	RESOURCELIST_URI_n

4.6.2.2 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 6.2 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	• Yes • No Note • 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

4.6.3 Hotline Settings

Panasonic
KX-HDV430

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

Logout
Web Port Close

Telephone

- Call Control
- Line 1
- Line 2
- Line 3
- Line 4
- Line 5
- Line 6
- Line 7
- Line 8
- Line 9
- Line 10
- Line 11
- Line 12
- Line 13
- Line 14
- Line 15
- Line 16
- Hotline Settings**

Hotline Settings

Hotline

Enable: ☐ Yes ☒ No

Hotline Number:

Hotline Delay: seconds [0-10]

Save Cancel

4.6.3.1 Hotline

Enable

Description	Selects whether to enable or disable the Hot line feature.
Value Range	• Yes • No

4.6.4 Program Key (No. 1–2) (For KX-HDV130)

Default Value	No
Configuration File Reference	HOTLINE_ENABLE

Hotline Number

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

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

4.6.4 Program Key (No. 1–2) (For KX-HDV130)

Panasonic

KX-HDV130

Status Network System VoIP **Telephone** Maintenance

Logout

Web Port Close

Telephone

- Call Control
 - Line 1
 - Line 2
- Hotline Settings
 - Program Key**
 - Tone Settings
 - Import Phonebook
 - Export Phonebook

Program Key

No.	Type	Parameter
1.		
2.		

Save Cancel

Type

Description	Selected a particular Facility Action for the flexible button. No facility action will be taken for the button if the string is empty or invalid.
Value Range	• One Touch Dial • BLF • Line • ACD • Wrap Up • Call Forward • Group Call Pickup

Default Value	Not stored.
Configuration File Reference	FLEX_BUTTON_FACILITY_ACTx

Parameter

Description	Specifies an optional argument associated with the specified Facility Action for the flexible button.
Value Range	Max. 32 characters
Default Value	Not stored.
Configuration File Reference	FLEX_BUTTON_FACILITY_ARGx

4.6.5 Flexible Key Settings (No. 1–24) (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)

Panasonic

KX-HDV430 Status Network System VoIP **Telephone** Maintenance

Logout

Web Port Close

Telephone

Call Control

- Line 1
- Line 2
- Line 3
- Line 4
- Line 5
- Line 6
- Line 7
- Line 8
- Line 9
- Line 10
- Line 11
- Line 12
- Line 13
- Line 14
- Line 15
- Line 16

Hotline Settings

Flexible Key Settings

Flexible Key Settings

No.	Type	Parameter	Label Name
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

4.6.5.1 Flexible Key Settings

Type

Description	Selects the feature to be assigned to each flexible key.
-------------	--

4.6.5 Flexible Key Settings (No. 1–24) (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)

Value Range	• One Touch Dial • BLF • Line • ACD • Wrap Up • Line Status • Call Forward • Phonebook • Call History • Simultaneous Ring • Hoteling (Hospitality) • Transfer • Blind Transfer • Conference • Directed Call Pickup • Call Park • Call Park Retrieve • Group Call Pickup • Network Camera (For KX-HDV430) • Presence • My Phone
Default Value	Not stored.
Configuration File Reference	FLEX_BUTTON_FACILITY_ACTx

Parameter

Description	Specifies the necessary values for the features assigned to flexible keys.
Value Range	Max. 128 characters
Default Value	Not stored.
Configuration File Reference	FLEX_BUTTON_FACILITY_ARGx

Label Name

Description	Specifies the message to be displayed on the screen when the flexible key is pressed.
Value Range	Max. 20 characters
Default Value	Not stored.
Configuration File Reference	FLEX_BUTTON_LABELx (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)

4.6.6 Tone Settings

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

Panasonic

KX-HDV430

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

Logout

Web Port Close

Telephone

Call Control

- Line 1
- Line 2
- Line 3
- Line 4
- Line 5
- Line 6
- Line 7
- Line 8
- Line 9
- Line 10
- Line 11
- Line 12
- Line 13
- Line 14
- Line 15
- Line 16

Hotline Settings

Flexible Key Settings

Tone Settings

Tone Settings

Dial Tone

Tone Frequencies: 350,440

Tone Timings: 60,0

Busy Tone

Tone Frequencies: 480,620

Tone Timings: 60,500,440

Ringing Tone

Tone Frequencies: 440,480

Tone Timings: 60,2000,3940

Stutter Tone

Tone Frequencies: 350,440

Tone Timings: 560,100,100,100,100,100,100,100,100,100,100

Reorder Tone

Tone Frequencies: 480,620

Tone Timings: 60,250,190

Save Cancel

4.6.6.1 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 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 - 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).
Value Range	0–16000 (0: Infinite time) Note Avoid setting 1–50 for any of the values.
Default Value	60,0
Configuration File Reference	DIAL_TONE1_TIMING

4.6.6.2 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 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 Avoid setting 1–50 for any of the values.
Default Value	60,500,440
Configuration File Reference	BUSY_TONE_TIMING

4.6.6.3 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 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 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 Avoid setting 1–50 for any of the values.
Default Value	60,2000,3940
Configuration File Reference	RINGBACK_TONE_TIMING

4.6.6.4 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 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

[illegible]

4.6.6.5 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) Note 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. Note 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 Note Avoid setting 1–50 for any of the values.
Configuration File Reference	REORDER_TONE_TIMING

4.6.7 Import Phonebook

This screen allows you to import phonebook data from a PC to the specified unit. For details, see **6.1.1 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.

The screenshot shows the Panasonic KX-HDV430 web interface. At the top, the model number 'KX-HDV430' is displayed. Below it, a navigation bar includes 'Status', 'Network', 'System', 'VoIP', 'Telephone' (highlighted), and 'Maintenance'. The 'Telephone' section contains a 'Logout' button and a 'Web Port Close' button. The 'Telephone' menu on the left includes 'Call Control', 'Line 1' through 'Line 16', 'Hotline Settings', 'Flexible Key Settings', 'Tone Settings', and 'Import Phonebook' (highlighted). The main content area is titled 'Import Phonebook' and contains a form with a 'File Name' input field, a '参照...' (Reference) button, and an 'Import' button.

4.6.7.1 Import Phonebook

File Name

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

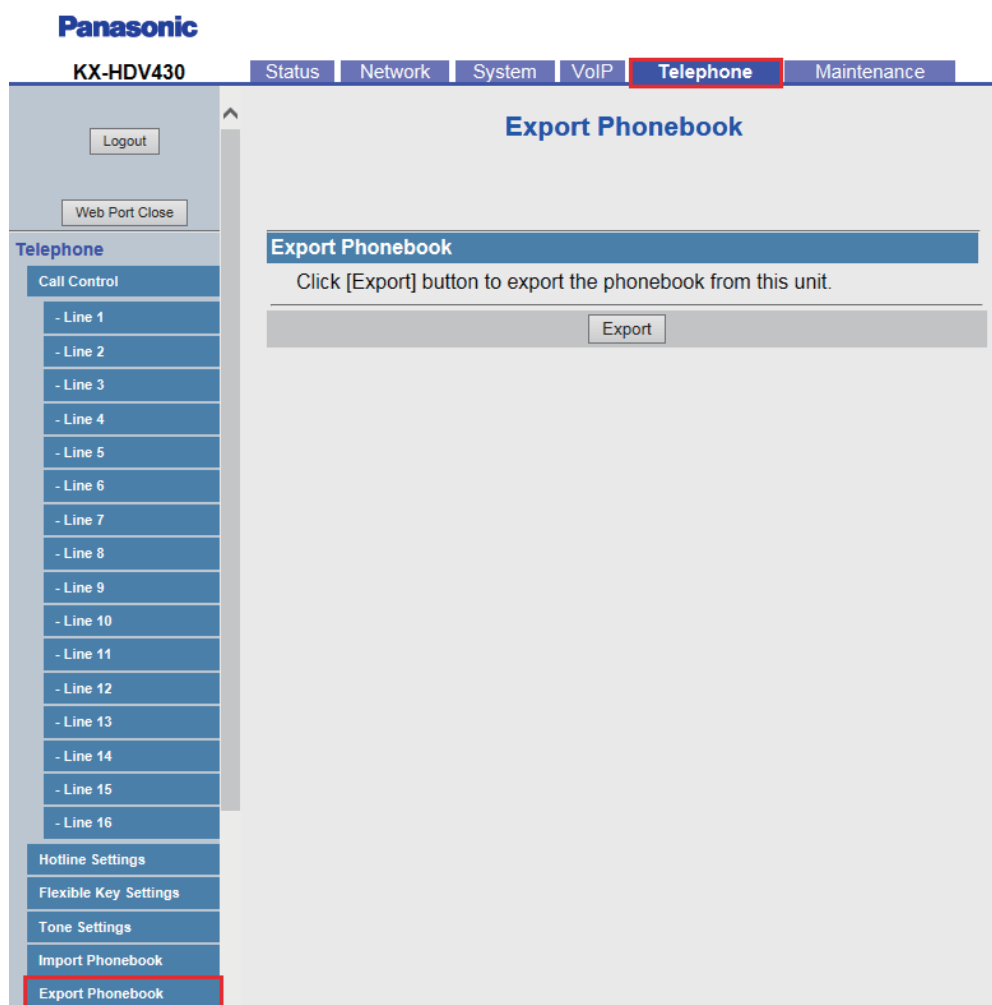
Value Range	No limitation Note • There are no limitations for the field entry. However, it is recommended that paths of less than 256 characters be used: longer paths may cause longer data transfer times and result in an internal error.
Default Value	Not stored.

4.6.8 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 **6.1.1 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.



4.6.8.1 Export Phonebook

Export Phonebook

Click **[Export]** button to export the phonebook from this unit.

4.6.9 Video Call Settings (For KX-HDV430)

This screen allows you to change the Video Call settings.

4.6.9 Video Call Settings (For KX-HDV430)

Panasonic

KX-HDV430

Status Network System VoIP **Telephone** Maintenance

Logout

Web Port Close

Telephone

Call Control

- Line 1
- Line 2
- Line 3
- Line 4
- Line 5
- Line 6
- Line 7
- Line 8
- Line 9
- Line 10
- Line 11
- Line 12
- Line 13
- Line 14
- Line 15
- Line 16

Hotline Settings

Flexible Key Settings

Tone Settings

Import Phonebook

Export Phonebook

Video Call Settings

Video Call Settings

Default Call Mode

Default Call Mode ☒ Voice ☐ Video

Screen Mode

Screen Mode ☒ Normal ☐ Split

Send Image

Send Image at Start ☒ Yes ☐ No

Rate Settings

Bit Rate 2048 kbps

Bit Rate Use ☒ Maximum ☐ Fixed

Frame Rate 30 fps

Image Size HVGAW

Save Cancel

4.6.9.1 Default Call Mode

Default Call Mode

Description	Selects the default call type when you make a call by going off hook, etc.
Value Range	• Voice • Video
Default Value	Voice
Configuration File Reference	DEFAULT_CALL_MODE

4.6.9.2 Screen Mode

Screen Mode

Description	Selects the mode for the video screen.
Value Range	• Normal • Split

Default Value	Normal
Configuration File Reference	VIDEO_SCREEN_MODE

4.6.9.3 Send Image

Send Image at Start

Description	Selects whether the video is automatically sent when you start a video call.
Value Range	• Yes • No
Default Value	Yes
Configuration File Reference	VIDEO_SEND_IMAGE_ENABLE

4.6.9.4 Rate Settings

Bit Rate

Description	Selects the bit rate for the video when you make a video call.
Value Range	• 128 • 256 • 384 • 512 • 768 • 1024 • 2048
Default Value	2048
Configuration File Reference	VIDEO_BIT_RATE

Bit Rate Use

Description	Selects whether the specified bit rate is treated as the maximum bit rate or a fixed bit rate.
Value Range	• Maximum • Fixed
Default Value	Maximum
Configuration File Reference	VIDEO_BIT_RATE_USE

Frame Rate

Description	Selects the frame rate for the video when you make a video call.
Value Range	• 15 • 30
Default Value	30

4.6.10 DSS Console (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)

Configuration File Reference	VIDEO_FRAME_RATE
------------------------------	------------------

Image Size

Description	Selects the size for video images when you make a video call.
Value Range	• QCIF • QVGA • CIF • HVGAW • VGA
Default Value	HVGAW
Configuration File Reference	VIDEO_IMAGE_SIZE

4.6.10 DSS Console (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)

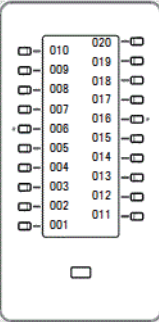
This screen allows you to configure various features for each DSS console key. Each DSS console supports 40 keys. DSS console 1 uses keys 1-40, DSS console 2 uses keys 41-80, etc.

Panasonic

KX-HDV430

Status Network System VoIP **Telephone** Maintenance

DSS Console



(1)

DSS 1 Key (001-020)

No.	Type	Parameter	Label Name
001			
002			
003			

Left sidebar menu:

- Line 5
- Line 6
- Line 7
- Line 8
- Line 9
- Line 10
- Line 11
- Line 12
- Line 13
- Line 14
- Line 15
- Line 16
- Hotline Settings
- Flexible Key Settings
- Tone Settings
- Import Phonebook
- Export Phonebook
- Video Call Settings
- DSS Console**
 - DSS Console
 - DSS 1 Key (001-020)**

4.6.10.1 DSS 1-5 Key (No. 1–200)

Type

Description	Selects the feature to be assigned to each DSS console key.
-------------	---

Value Range	• One Touch Dial • BLF • Line • ACD • Wrap Up • Line Status • Call Forward • Phonebook • Call History • Simultaneous Ring • Hoteling (Hospitality) • Transfer • Blind Transfer • Conference • Directed Call Pickup • Call Park • Call Park Retrieve • Group Call Pickup • Network Camera (For KX-HDV430) • Presence • My Phone
Default Value	Not stored.
Configuration File Reference	DSS_BUTTON_FACILITY_ACTx

Parameter

Description	Specifies the necessary values for the features assigned to DSS console keys.
Value Range	Max. 128 characters
Default Value	Not stored.
Configuration File Reference	DSS_BUTTON_FACILITY_ARGx

Label Name

Description	Specifies the message to be displayed on the screen when the DSS console key is pressed.
Value Range	Max. 20 characters
Default Value	Not stored.
Configuration File Reference	DSS_BUTTON_LABELx

4.7 Maintenance

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

4.7.1 Provisioning Maintenance

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

Panasonic
KX-HDV430

Status Network System VoIP Telephone **Maintenance**

Logout
Web Port Close

Maintenance
Provisioning Maintenance
Firmware Maintenance
Export Logging File
Reset to Defaults
Restart

Provisioning Maintenance

Standard File URL	
Product File URL	
Master File URL	
Cyclic Auto Resync	☐ Yes ☒ No
Resync Interval	10080 minutes [1-40320]
Time Resync	[00:00-23:59, NULL: Disable]
Header Value for Resync Event	check-sync

Save Cancel

4.7.1.1 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 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 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 For details about the formats, see 2.1.3 Server Address Formats.
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	- 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. Note - If "Header Value for Resync Event" or "CFG_RESYNC_FROM_SIP" is set to "check-sync", the operation after receiving NOTIFY from the server depends on the "Event" header in NOTIFY. - Event: check-sync Follows the setting of "CFG_RESYNC_ACTION" - Event: check-sync;reboot=true Reboots when in standby - Event: check-sync;forcedreboot=true Reboots immediately
Value Range	Max. 15 characters
Default Value	check-sync
Configuration File Reference	CFG_RESYNC_FROM_SIP

4.7.2 Firmware Maintenance

This screen allows you to perform firmware updates automatically.

Panasonic

KX-HDV430

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

Logout

Web Port Close

Maintenance

Provisioning Maintenance

Firmware Maintenance

Export Logging File

Reset to Defaults

Restart

Firmware Maintenance

Enable Firmware Update ☒ Yes ☐ No

Firmware File URL

Firmware Version

Save Cancel

4.7.2.1 Firmware Maintenance

Enable Firmware Update

Description	Selects whether to perform firmware updates when the unit detects a newer version of firmware. Note - Manual firmware updates from the Web user interface (→ see 4.7.3 Upgrade Firmware (For KX-HDV130/KX-HDV230)) can be performed regardless of this setting. - Firmware updates using TR-069 can be performed regardless of this setting.
Value Range	- 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 This setting is available only when [Enable Firmware Update] is set to [Yes].
Value Range	Max. 384 characters Note 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

Firmware Version (For KX-HDV330/KX-HDV340/KX-HDV430)

Description	Specifies the new firmware version of the unit.
Value Range	6 characters xx.xxx [x=0–9]
Default Value	Not stored.
Configuration File Reference	FIRM_VERSION

4.7.3 Upgrade Firmware (For KX-HDV130/KX-HDV230)

This screen allows you to download the Upgrade Firmware data from the HTTP server. You can upgrade the firmware manually, irrespective of the **[Enable Firmware Update]** setting.

4.7.4 Export Logging File

Note

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

Panasonic

KX-HDV130

Status Network System VoIP Telephone **Maintenance**

Logout

Web Port Close

Maintenance

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

Upgrade Firmware

Firmware File URL

Update Firmware

4.7.3.1 Upgrade Firmware

Firmware File URL (For KX-HDV130)

Description	Specifies the URI where the firmware file is stored.
Value Range	Max. 384 characters
Default Value	Not stored.

File Name (For KX-HDV230)

Description	Specifies the path of the firmware file to be imported.
Value Range	No limitation Note • 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.

4.7.4 Export Logging File

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

Panasonic
KX-HDV430

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

Logout
Web Port Close

Maintenance

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

Export Logging File

Logging File Type: ☒ Power Down ☐ Event ☐ SIP Packet

Export

4.7.4.1 Export Logging File

Logging File Type

Description	Selects the Logging File Type setting.
Value Range	• Power Down • Event • SIP Packet Note • 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

4.7.5 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.

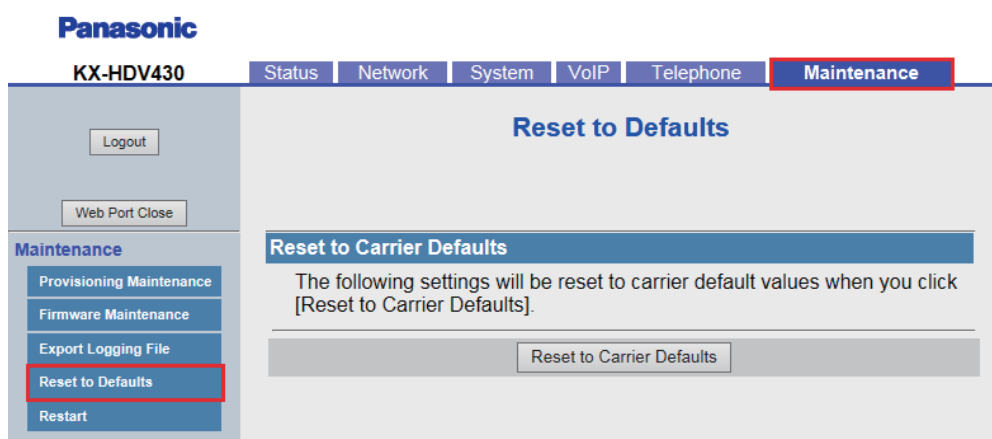
Notice

- 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**).

4.7.6 Restart

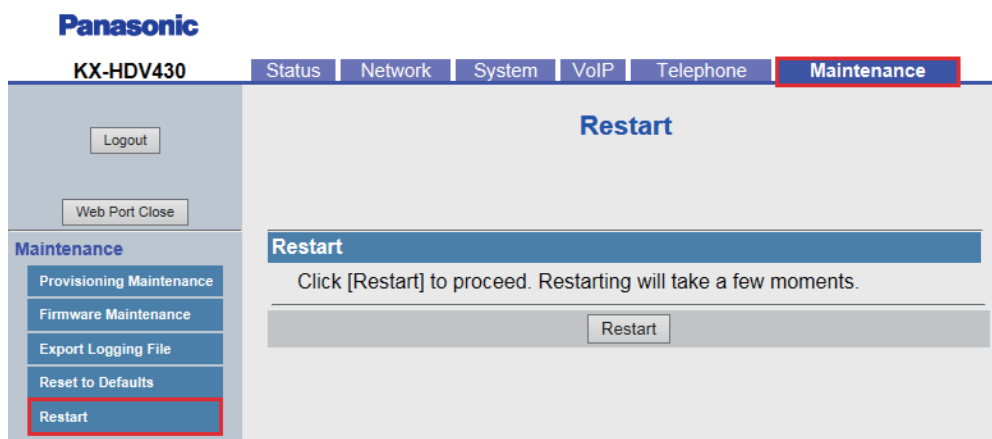


4.7.6 Restart

This screen allows you to restart the unit by clicking **[Restart]**. 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.

Notice

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



Section 5

Configuration File Programming

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

5.1 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.
FACTORY_RESET_ENABLE	page 191
BUTTON_LOCATION_SETTING	page 191
SYS_HOME_MENU_ICONx	page 191
FWD_DND_MENU_ENABLE	page 192
BLOCK_CID_MENU_ENABLE	page 192
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BLF_AUTO_SETTING_ENABLE	page 325
ECO_MODE_PASS_ENABLE	page 325
EMBEDDED_WEB_PASS_ENABLE	page 325
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AUTHENTICATION_PASS_ENABLE	page 326
PB_QUICK_SEARCH_ENABLE	page 326
CONF_RETRIEVE_HOLDKEY_ENABLE	page 326
DISPLAY_BARGE_IN_ENABLE	page 327
DISPLAY_CHECKSYNC_ENABLE	page 327
CW_DISPLAY_CONTINUATION_ENABLE	page 327
BLF_OPERATION_MODE	page 328
SWITCH_DISPLAY_ENABLE	page 328

Flexible Key Settings

Parameter Name	Ref.
FLEX_BUTTON_FACILITY_ACTx ¹	page 328
FLEX_BUTTON_FACILITY_ARGx ¹	page 329
FLEX_BUTTON_LABELx ¹	page 330
FLEX_BUTTON_QUICK_DIALx	page 330
LONG_PRESS_KEY_SETTING_ENABLE	page 330

DSS Key Settings

Parameter Name	Ref.
DSS_BUTTON_FACILITY_ACTx ¹	page 331

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Parameter Name	Ref.
DSS_BUTTON_FACILITY_ARGx ¹	page 331
DSS_BUTTON_LABELx ¹	page 332
DSS_BUTTON_QUICK_DIALx	page 332

Tone Settings

Parameter Name	Ref.
OUTSIDE_DIAL_TONE_FRQ	page 332
OUTSIDE_DIAL_TONE_GAIN	page 332
OUTSIDE_DIAL_TONE_RPT	page 332
OUTSIDE_DIAL_TONE_TIMING	page 333
CONFIRMATION_TONE5_FRQ	page 333
CONFIRMATION_TONE5_GAIN	page 333
REORDER_TONE_ENABLE	page 333
TONE_LEN_DISCONNECT	page 333
DIAL_TONE1_FRQ ²	page 334
DIAL_TONE1_GAIN	page 334
DIAL_TONE1_RPT	page 334
DIAL_TONE1_TIMING ²	page 334
DIAL_TONE2_FRQ	page 334
DIAL_TONE2_GAIN	page 335
DIAL_TONE2_RPT	page 335
DIAL_TONE2_TIMING	page 335
DIAL_TONE4_FRQ	page 335
DIAL_TONE4_GAIN	page 335
DIAL_TONE4_RPT	page 336
DIAL_TONE4_TIMING	page 336
BUSY_TONE_FRQ ²	page 336
BUSY_TONE_GAIN	page 336
BUSY_TONE_RPT	page 337
BUSY_TONE_TIMING ²	page 337
REORDER_TONE_FRQ ²	page 337
REORDER_TONE_GAIN	page 337
REORDER_TONE_RPT	page 337
REORDER_TONE_TIMING ²	page 338
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Parameter Name	Ref.
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HOLD_ALARM_FRQ	page 339
HOLD_ALARM_GAIN	page 339
CW_TONE1_FRQ	page 339
CW_TONE1_GAIN	page 339
HOLD_TONE_FRQ	page 340
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BELL_CORE_PATTERN1_TIMING	page 340
BELL_CORE_PATTERN2_TIMING	page 340
BELL_CORE_PATTERN3_TIMING	page 340
BELL_CORE_PATTERN4_TIMING	page 341
BELL_CORE_PATTERN5_TIMING	page 341
KEY_PAD_TONE ³	page 341

Call Control Settings

Parameter Name	Ref.
DEFAULT_LINE_SELECT ¹	page 342
ANONYMOUS_CALL_ENABLE_n ¹	page 342
BLOCK_ANONYMOUS_CALL_ENABLE_n ¹	page 343
HOTLINE_ENABLE ²	page 343
HOTLINE_NUMBER ²	page 343
HOTLINE_TIM ²	page 343
DISPLAY_NAME_n ²	page 343
VM_SUBSCRIBE_ENABLE ²	page 344
VM_NUMBER_n ²	page 344
VM_SUBSCRIBE_SPECIFIC_n	page 344
DISPLAY_VM_WITH_NUMBER	page 344
DIAL_PLAN_n ²	page 345
DIAL_PLAN_NOT_MATCH_ENABLE_n ²	page 345
DIALPLAN_REPLACE_LOG_ENABLE	page 345
DIALPLAN_MEMORY_DIAL_ENABLE	page 346
MACRODIGIT_TIM ²	page 346
INTERNATIONAL_ACCESS_CODE ²	page 346

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Parameter Name	Ref.
COUNTRY_CALLING_CODE ²	page 346
NATIONAL_ACCESS_CODE ²	page 346
IDLE_SOFT_KEY_A ²	page 347
IDLE_SOFT_KEY_B ²	page 347
IDLE_SOFT_KEY_C ²	page 347
ADMIN_ABILITY_ENABLE ²	page 348
EMERGENCY_CALLx ²	page 348
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CLICKTO_ENABLE_n ²	page 349
SIGNALING_AUTO_ANS_ENABLE_n	page 349
CALLPARK_NOTIFICATION_ENABLE_n ²	page 349
SHARED_CALL_ENABLE_n ²	page 349
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FWD_DND_SYNCHRO_ENABLE_n ²	page 350
FWD_SYNCHRO_FORCE_DISABLE_n	page 350
BS_EXECUTIVE_SETTING_ENABLE_n ²	page 351
BS_ASSISTANT_SETTING_ENABLE_n ²	page 351
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FWD_DND_MISSEDLOG_ENABLE	page 352
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SIP_RESPONSE_CODE_DND	page 352
SIP_RESPONSE_CODE_CALL_REJECT	page 353
CW_ENABLE_n ²	page 353
RETURN_VOL_SET_DEFAULT_ENABLE	page 353
CONFERENCE_SERVER_URI ²	page 353
CONF_SERVER_HOLD_ENABLE	page 353
RESOURCELIST_URI_n ²	page 354
TALKING_SOFT_KEY_A	page 354
TALKING_SOFT_KEY_B	page 354
TALKING_SOFT_KEY_C	page 355
AUTO_ANS_ENABLE ³	page 356

Parameter Name	Ref.
AUTO_ANS_OPER_ENABLE	page 356
AUTO_ANS_DEVICE ^{*3}	page 356
AUTO_ANS_DELAY ^{*3}	page 357
AUTO_ANS_TYPE ^{*3}	page 357
RETRIVE_TRANS_HOLD_OPER_CHANGE	page 357
REMOVE_PREFIX_ENABLE	page 357
AUTO_ANSWER_DEVICE_ENABLE	page 358

Video Communication Settings

Parameter Name	Ref.
DEFAULT_CALL_MODE ^{*1}	page 358
VIDEO_SCREEN_MODE ^{*1}	page 358
VIDEO_SEND_IMAGE_ENABLE ^{*1}	page 358
VIDEO_BIT_RATE ^{*1}	page 359
VIDEO_BIT_RATE_USE ^{*1}	page 359
VIDEO_FRAME_RATE ^{*1}	page 359
VIDEO_IMAGE_SIZE ^{*1}	page 359
H264_PAYLOAD	page 360

Network Camera Settings

Parameter Name	Ref.
NWCAMERA_DISPLAY_NAME ^{x*3}	page 360
NWCAMERA_ADDR ^{x*3}	page 360
NWCAMERA_PORT ^{x*3}	page 360
NWCAMERA_USER_ID ^{x*3}	page 361
NWCAMERA_PASS ^{x*3}	page 361
NWCAMERA_PAGING_PHONE_NAME ^{x*3}	page 361
NWCAMERA_PAGING_PHONE_NUMBER ^{x*3}	page 361
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NWCAMERA_LINK_PHONE _m NUMBER ^{x*3}	page 362
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Parameter Name	Ref.
NWCAMERA_OPEN_RECEIVE_CALL	page 363

Communication Camera Settings

Parameter Name	Ref.
COMM_CAMERA_NUMBER ^x *1	page 363
COMM_CAMERA_NAME ^x *1	page 363
COMM_CAMERA_RINGTONE_SETTING ^x *1	page 364
DTMF_CONTROL_UP_CAMERA ^x	page 364
DTMF_CONTROL_DOWN_CAMERA ^x	page 364
DTMF_CONTROL_LEFT_CAMERA ^x	page 364
DTMF_CONTROL_RIGHT_CAMERA ^x	page 365
DTMF_CONTROL_OPEN_CAMERA ^x	page 365
DTMF_CONTROL_ZOOMUP_CAMERA ^x	page 365
DTMF_CONTROL_ZOOMDOWN_CAMERA ^x	page 365
DTMF_CONTROL_VOICE_CAMERA ^x	page 366

Logging Settings

Parameter Name	Ref.
SYSLOG_ADDR	page 366
SYSLOG_PORT	page 366
LOGGING_LEVEL_DNS	page 366
LOGGING_LEVEL_NW1	page 366
LOGGING_LEVEL_FILE	page 367
LOGGING_LEVEL_SIP	page 367
LOGGING_LEVEL_TR069	page 367
LOGGING_LEVEL_STUN	page 367
LOGGING_LEVEL_NW2	page 367
LOGGING_LEVEL_CFGPARSE	page 367
SYSLOG_OUT_START	page 367
SYSLOG_TRANSPORT	page 368
SYSLOG_TLS_VERIFY	page 368
SYSLOG_ROOT_CERT_PATH	page 368
SYSLOG_CLIENT_CERT_PATH	page 368
SYSLOG_PKEY_PATH	page 368

TWAMP Settings

Parameter Name	Ref.
<code>TWAMP_ENABLE</code> ^{*2}	page 369
<code>TWAMP_CONTROL_PORT</code> ^{*2}	page 369
<code>TWAMP_TEST_PORT</code> ^{*2}	page 369
<code>TWAMP_SERVER_WAIT_TIME</code> ^{*2}	page 369
<code>TWAMP_REFLECTOR_WAIT_TIME</code> ^{*2}	page 369
<code>TWAMP_PADDING_ZERO</code>	page 370

*1 This setting can also be configured through other programming methods (phone user interface programming or Web user interface programming).

*2 This setting can also be configured through the Web user interface.

*3 This setting can also be configured through the Phone user interface programming.

5.2 General Information on the Configuration Files

5.2.1 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-HDV130: 1–2
 - KX-HDV230: 1–6
 - KX-HDV330: 1–12
 - KX-HDV340: 1–4
 - KX-HDV430: 1–16

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

Parameter Name Examples are as follows :

KX-HDV130: VM_NUMBER_1, VM_NUMBER_2

KX-HDV230: VM_NUMBER_1, VM_NUMBER_2, ..., VM_NUMBER_6

KX-HDV330: VM_NUMBER_1, VM_NUMBER_2, ..., VM_NUMBER_12

KX-HDV340: VM_NUMBER_1, VM_NUMBER_2, ..., VM_NUMBER_4

KX-HDV430: VM_NUMBER_1, VM_NUMBER_2, ..., VM_NUMBER_16

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)

5.2.2 Characters Available for String Values

An empty string is not allowed.

- **Boolean:** "Y" or "N"
- **String:** sequence of alphanumerical characters
For details about available characters, see **5.2.2 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.

5.2.2 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	{		}	~	

5.3 System Settings

5.3.1 System Settings

FACTORY_RESET_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable or disable the operation of factory default and carrier default.
Value Range	- Y: Enable factory reset operation - N: Disable
Default Value	Y

BUTTON_LOCATION_SETTING (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the order (normal or reverse) of flexible keys and DSS keys.
Value Range	0: Normal 1: Reverse
Default Value	0

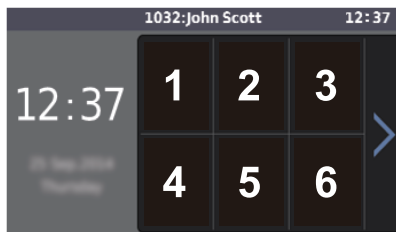
SYS_HOME_MENU_ICONx (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	x=1–20 Specifies an arrangement of the icons on the Home menu.

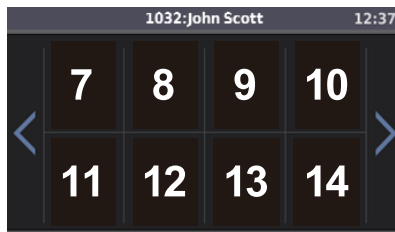
5.3.1 System Settings

Value Range	0: Original position 1: None 2: Function 3: Phonebook 4: Call History 5: Voice Message 6: FWD/DND 7: Application 8: Basic Settings 9: System Settings 10: Advanced Settings 11: Line Status 12: Presence 13: Call Center/Call Centre 14: Paging 15: Network Camera (For KX-HDV430) 16: Comm. Camera (For KX-HDV430) 17: XML shortcut1 18: XML shortcut2 19: XML shortcut3 20: XML shortcut4 21: XML shortcut5 22: XML shortcut6
Default Value	0

Location numbers (x=1–20) of the icons on the Home menu.



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FWD_DND_MENU_ENABLE

Value Format	BOOLEAN
Description	Specifies whether the "FWD/DND" setting is displayed in MENU and the Web user interface.
Value Range	- Y: Displayed - N: Not displayed
Default Value	Y

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	• Y: Enable • N: Disable
Default Value	Y

BLOCK_ANONY_MENU_ENABLE

Value Format	BOOLEAN
Description	Specifies whether the "Block Anonymous" setting is displayed in MENU and the Web user interface.
Value Range	• 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 and the Web user interface.
Value Range	• Y: Displayed • N: Not displayed
Default Value	Y

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

START_DIAL_POUND_KEY

Value Format	BOOLEAN
Description	Specifies whether to send the dialed number when the '#' key is pressed during pre-dialing.
Value Range	• Y: Enable dialing by using '#' • N: Disable
Default Value	N

TIME_ZONE_SET_ENABLE

Value Format	BOOLEAN
Description	Specifies whether the "Time Zone" setting is displayed in MENU and the Web user interface.

Value Range	• Y: Displayed • N: Not displayed
Default Value	N

DISCLOSE_FUNCTION_ENABLE (For KX-HDV130/KX-HDV230)

Value Format	BOOLEAN
Description	Specifies whether to use as a normal telephone or as a hotel telephone.
Value Range	• Y: Normal telephone • N: Hotel telephone Note • If "N" is specified, some functions and keys are limited.
Default Value	Y

VM_FUNCTION_ENABLE (For KX-HDV130/KX-HDV230)

Value Format	BOOLEAN
Description	Specifies whether to enable or disable the Voice Mail function.
Value Range	• Y: Enable Voice Mail function • N: Disable
Default Value	Y

DISPLAY_CALL_KEY_ENABLE

Value Format	BOOLEAN
Description	Specifies whether call information is displayed on Line and BLF program/DSS keys.
Value Range	• Y: Displayed • N: Not displayed
Default Value	N

LCD_SCREEN_TIMEOUT (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the length of time before the LCD backlight turns off when the unit is idle.

Value Range	• 0: 30 sec • 1: 1 min • 2: 5 min • 3: 10 min • 4: 30 min • 5: 60 min • 6: 120 min • 7: 180 min • 8: 300 min • 9: Always On
Default Value	1

LCD_ACTIVE_LEVEL (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the backlight level of the LCD when it is active.
Value Range	0–8
Default Value	8

LCD_INACTIVE_LEVEL (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the backlight level of the LCD when it is inactive.
Value Range	• 0: Off • 1: Low
Default Value	0

DSS_LCD_ACTIVATION (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the activation of the backlight of DSS units' LCD.
Value Range	• 0: Off • 1: On • 2: Auto
Default Value	2

DSS_LCD_BACKLIGHT (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the backlight level of DSS units' LCD.
Value Range	1–6
Default Value	6

DSS_LCD_CONTRAST (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the contrast level of DSS units' LCD.
Value Range	1–6
Default Value	3

CALL_SETTINGS_MENU_ENABLE

Value Format	BOOLEAN
Description	Specifies whether the "Call Settings" setting is displayed in MENU and the Web user interface.
Value Range	• Y: Displayed • N: Not displayed
Default Value	Y

ECO_MODE_MENU_ENABLE

Value Format	BOOLEAN
Description	Specifies whether the "ECO Mode" setting is displayed under MENU.
Value Range	• Y: Enable displaying the ECO Mode function under MENU. • N: Disable
Default Value	Y

NOTIFICATION_MENU_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to display the notification settings under MENU.
Value Range	• Y: Display the notification settings • N: Do not display
Default Value	Y

NOTIFY_MISSEDCALL_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to display 'Missed Calls' on the screen in standby mode. Note • This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	• Y: Enable displaying 'Missed Calls' in standby mode. • N: Disable
Default Value	Y

Web User Interface Reference	Missed Call Notification - Message
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NOTIFY_MISSEDCALL_LED_ENABLE

Value Format	BOOLEAN
Description	Specifies whether the LED is used to indicate a missed call Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	Y: Enable LED indication for a missed call. N: Disable
Default Value	Y
Web User Interface Reference	Missed Call Notification - LED

NOTIFY_VOICEMAIL_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to display 'Voice MSG' on the screen in standby mode. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	Y: Enable displaying 'Voice MSG' in standby mode. N: Disable
Default Value	Y
Web User Interface Reference	Voice Message Notification - Message

NOTIFY_VOICEMAIL_LED_ENABLE

Value Format	BOOLEAN
Description	Specifies whether the LED is used to indicate a missed call Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	Y: Enable LED indication for a missed call. N: Disable
Default Value	Y
Web User Interface Reference	Voice Message Notification - LED

NOTIFY_VOICEMAIL_ALARM_ENABLE

Value Format	BOOLEAN
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Description	Specifies whether an alarm sound is used to indicate a new voice message. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	- Y: Enable alarms sound for voice messages. - N: Disable
Default Value	Y
Web User Interface Reference	Voice Message Notification - Alarm

NOTIFY_NETWORKCAMERA_ENABLE (For KX-HDV430)

Value Format	BOOLEAN
Description	Specifies whether to display the Network Camera message icon on the screen. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	- Y: Enable displaying the icon. - N: Disable
Default Value	Y
Web User Interface Reference	Network Camera Notification - Message (For KX-HDV430)

NOTIFY_NETWORKCAMERA_LED_ENABLE (For KX-HDV430)

Value Format	BOOLEAN
Description	Specifies whether the LED is used to indicate a Network Camera alert. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	- Y: Enable LED indication for Network Camera alerts. - N: Disable
Default Value	Y
Web User Interface Reference	Network Camera Notification - LED (For KX-HDV430)

NOTIFY_NETWORKCAMERA_ALARM_ENABLE (For KX-HDV430)

Value Format	BOOLEAN
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Description	Specifies whether an alarm sound is used to indicate a Network Camera alert. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	Y: Enable alarms for Network Camera alerts. N: Disable
Default Value	Y
Web User Interface Reference	Network Camera Notification - Alarm (For KX-HDV430)

NOTIFICATION_ALARM_TYPE

Value Format	INTEGER
Description	Specifies whether a voice mail alarm notification is used only the first time or every time. Note This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".
Value Range	0: First time only 1: Every time
Default Value	0

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	Y: Enable the VAD and CNG functions N: Disable
Default Value	N

BOOTLOG_SERVER_URI

Value Format	STRING
Description	Specifies the URI for a boot logging server.
Value Range	Max. 256 characters
Default Value	Empty string

DISPLAY_DIVERSION_ENABLE

Value Format	BOOLEAN
Description	Specifies whether the "Diversion" call information is displayed when receiving an incoming call.

Value Range	• Y: Enable displaying the "Diversion" information • 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

HOME_DISPLAY_TYPE (For KX-HDV330/KX-HDV430)

Value Format	INTEGER
Description	Specifies the startup standby display.
Value Range	• 0: Normal display 1 • 1: Normal display 2 • 2: Line display • 3: Combined display
Default Value	0

FUNCTION_DISPLAY_TYPE (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the number and layout of the function key pages.
Value Range	• 0: 8 items x 3 pages • 1: 12 items x 2 pages
Default Value	0

FOCUS_OPERATION_ENABLE (For KX-HDV330/KX-HDV430)

Value Format	BOOLEAN
Description	Specifies whether to change the focus or seize the line when you tap a line on the line display or combined display.
Value Range	• Y: Change the focus • N: Seize the line
Default Value	N

INCOMING_DISPLAY_ENABLE (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	BOOLEAN
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Description	Specifies whether to enable displaying the details screen for incoming calls on the line display and combined display when there is an incoming call.
Value Range	• Y: Enable the detail screen for incoming calls • N: Disable
Default Value	Y

DISPLAY_AUTO_CHANGE_ENABLE (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	BOOLEAN
Description	Specifies whether to enable switching automatically to the line display or combined display when there are 2 or more active calls.
Value Range	• Y: Enable automatic switching • N: Disable
Default Value	Y

NOTIFY_FUNC_KEY_ENABLE (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	BOOLEAN
Description	• KX-HDV230 Specifies whether to enable notification for the following cases: – A call is incoming at a BLF key that is assigned to a function key on another page. – There is a conversation using a BLF key that is assigned to a function key on another page. • KX-HDV330/KX-HDV340/KX-HDV430 Specifies whether to enable notification when a call is incoming at a BLF key that is assigned to a function key.
Value Range	• Y: Enable notification • N: Disable
Default Value	Y

NOTIFY_DSS_KEY_ENABLE (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	BOOLEAN
Description	Specifies the notification method for the following cases: • A call is incoming at a BLF key that is assigned to a DSS key on another page. • There is a conversation using a BLF key that is assigned to a DSS key on another page. (For KX-HDV230)
Value Range	• Y: Enable notification • N: Disable

Default Value	Y
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IDLE_SOFT_KEY_1 (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the function of soft key 1 on the line display or combined display in standby mode.
Value Range	• 1: Call • 2: Phonebook • 3: Call History • 4: Function • 5: Park (Used when performing Park Retrieve) • 6: ACD • 7: Call Center/Call Centre • 8: My Phone • 9: Presence • 10: FWD/DND • 11: Paging • 12: Group Pickup • 13: Basic Settings • 14: System Settings • 15: Advanced Settings • 16: Application • 17: Network Camera (For KX-HDV430) • 18: Comm. Camera (For KX-HDV430) Note 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. – Park: CALLPARK_NOTIFICATION_ENABLE_n – ACD: ACD_ENABLE_n – Call Center/Call Centre: CALL_CENTER_ENABLE_n – My Phone: UC_ENABLE – Presence: UC_ENABLE – Paging: MPAGE_FUNCKEY_ENABLE – Application: XMLAPP_ENABLE
Default Value	1

IDLE_SOFT_KEY_2 (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
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Description	Specifies the function of soft key 2 on the line display or combined display in standby mode.
Value Range	• 1: Call • 2: Phonebook • 3: Call History • 4: Function • 5: Park (Used when performing Park Retrieve) • 6: ACD • 7: Call Center/Call Centre • 8: My Phone • 9: Presence • 10: FWD/DND • 11: Paging • 12: Group Pickup • 13: Basic Settings • 14: System Settings • 15: Advanced Settings • 16: Application • 17: Network Camera (For KX-HDV430) • 18: Comm. Camera (For KX-HDV430) Note 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. – Park: CALLPARK_NOTIFICATION_ENABLE_n – ACD: ACD_ENABLE_n – Call Center/Call Centre: CALL_CENTER_ENABLE_n – My Phone: UC_ENABLE – Presence: UC_ENABLE – Paging: MPAGE_FUNCKEY_ENABLE – Application: XMLAPP_ENABLE
Default Value	2

IDLE_SOFT_KEY_3 (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the function of soft key 3 on the line display or combined display in standby mode.

Value Range	• 1: Call • 2: Phonebook • 3: Call History • 4: Function • 5: Park (Used when performing Park Retrieve) • 6: ACD • 7: Call Center/Call Centre • 8: My Phone • 9: Presence • 10: FWD/DND • 11: Paging • 12: Group Pickup • 13: Basic Settings • 14: System Settings • 15: Advanced Settings • 16: Application • 17: Network Camera (For KX-HDV430) • 18: Comm. Camera (For KX-HDV430) Note 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. – Park: CALLPARK_NOTIFICATION_ENABLE_n – ACD: ACD_ENABLE_n – Call Center/Call Centre: CALL_CENTER_ENABLE_n – My Phone: UC_ENABLE – Presence: UC_ENABLE – Paging: MPAGE_FUNCKEY_ENABLE – Application: XMLAPP_ENABLE
Default Value	3

IDLE_SOFT_KEY_4 (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the function of soft key 4 on the line display or combined display in standby mode.

Value Range	• 1: Call • 2: Phonebook • 3: Call History • 4: Function • 5: Park (Used when performing Park Retrieve) • 6: ACD • 7: Call Center/Call Centre • 8: My Phone • 9: Presence • 10: FWD/DND • 11: Paging • 12: Group Pickup • 13: Basic Settings • 14: System Settings • 15: Advanced Settings • 16: Application • 17: Network Camera (For KX-HDV430) • 18: Comm. Camera (For KX-HDV430) Note 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. – Park: CALLPARK_NOTIFICATION_ENABLE_n – ACD: ACD_ENABLE_n – Call Center/Call Centre: CALL_CENTER_ENABLE_n – My Phone: UC_ENABLE – Presence: UC_ENABLE – Paging: MPAGE_FUNCKEY_ENABLE – Application: XMLAPP_ENABLE
Default Value	4

FORWARD_INCOMING_SOFTKEY_ENABLE (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	BOOLEAN
Description	Specifies whether to display the "Call Forward" soft key on the line display or combined display when there is an incoming call and also "Call Forward" is enabled.
Value Range	• Y: Enable displaying the soft key • N: Disable

Default Value	Y
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SHARED_LINE_ICON_ENABLE (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	BOOLEAN
Description	Specifies whether to display an icon instead of the index number on shared lines on the line display or combined display.
Value Range	- Y: Enable displaying the icon - N: Disable
Default Value	N

TALKING_SOFT_KEY_1 (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the function of soft key 1 while on a call on the line display or combined display.
Value Range	0: Original 1: Off 2: Blind (Used when performing Blind Transfer) 3: Park (Used when performing Call Park) 4: Private Hold 5: Call Center/Call Centre 6: Phonebook 7: Call History 8: Function 9: Flash/Recall 10: Call (Video Call (For KX-HDV430) or Call) Note 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. – Blind: BLIND_TRANSFER_ENABLE – Park: CALLPARK_KEY_ENABLE – Private Hold: PRIVATE_HOLD_ENABLE
Default Value	0

TALKING_SOFT_KEY_2 (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the function of soft key 2 while on a call on the line display or combined display.

Value Range	• 0: Original • 1: Off • 2: Blind (Used when performing Blind Transfer) • 3: Park (Used when performing Call Park) • 4: Private Hold • 5: Call Center/Call Centre • 6: Phonebook • 7: Call History • 8: Function • 9: Flash/Recall • 10: Call (Video Call (For KX-HDV430) or Call) Note 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. – Blind: BLIND_TRANSFER_ENABLE – Park: CALLPARK_KEY_ENABLE – Private Hold: PRIVATE_HOLD_ENABLE
Default Value	0

TALKING_SOFT_KEY_3 (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the function of soft key 3 while on a call on the line display or combined display.

5.3.1 System Settings

Value Range	• 0: Original • 1: Off • 2: Blind (Used when performing Blind Transfer) • 3: Park (Used when performing Call Park) • 4: Private Hold • 5: Call Center/Call Centre • 6: Phonebook • 7: Call History • 8: Function • 9: Flash/Recall • 10: Call (Video Call (For KX-HDV430) or Call) Note 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. – Blind: BLIND_TRANSFER_ENABLE – Park: CALLPARK_KEY_ENABLE – Private Hold: PRIVATE_HOLD_ENABLE
Default Value	0

TALKING_SOFT_KEY_4 (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	Specifies the function of soft key 4 while on a call on the line display or combined display.

Value Range	• 0: Original • 1: Off • 2: Blind (Used when performing Blind Transfer) • 3: Park (Used when performing Call Park) • 4: Private Hold • 5: Call Center/Call Centre • 6: Phonebook • 7: Call History • 8: Function • 9: Flash/Recall • 10: Call (Video Call (For KX-HDV430) or Call) Note 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. – Blind: BLIND_TRANSFER_ENABLE – Park: CALLPARK_KEY_ENABLE – Private Hold: PRIVATE_HOLD_ENABLE
Default Value	0

SOFT_KEY_EDIT_MENU_ENABLE (For KX-HDV130/KX-HDV230)

Value Format	BOOLEAN
Description	Specifies whether the "Soft Key Edit" and "Soft Key Name" settings are displayed in the phone menu.
Value Range	• Y: Displayed • N: Not displayed
Default Value	Y

DISPLAY_DATE_FORMAT

Value Format	STRING
Description	Specifies the date display format.
Value Range	• Empty string : No change • 0: Factory default • 1: MM-DD-YYYY • 2: DD-MM-YYYY Note • The factory default depends on the suffix of the model name. Suffix: NE/X/SX/RU → DD-MM-YYYY Suffix: (none)/C → MM-DD-YYYY

Default Value	Empty string
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DISPLAY_TIME_FORMAT

Value Format	STRING
Description	Specifies the time display format.
Value Range	• Empty string : No change • 0: Factory default • 1: 12H • 2: 24H Note • Factory default depends on the suffix of model name. Suffix: NE/X/SX/RU → 24H Suffix: (none)/C → 12H
Default Value	Empty string

DATE_FORMAT_MENU_ENABLE

Value Format	BOOLEAN
Description	Specifies whether the "Date Format" setting is displayed in the phone menu.
Value Range	• $\mathcal{Y}$: Displayed • $\mathcal{N}$: Not displayed
Default Value	$\mathcal{Y}$

TIME_FORMAT_MENU_ENABLE

Value Format	BOOLEAN
Description	Specifies whether the "Time Format" setting is displayed in the phone menu.
Value Range	• $\mathcal{Y}$: Displayed • $\mathcal{N}$: Not displayed
Default Value	$\mathcal{Y}$

DELAY_RING_TIME_n

Parameter Name Example	For details about parameter names end with "_n", see 5.2.1 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.
Value Range	• Y: Enable Off-hook Monitor • N: Disable
Default Value	Y

PRIVATE_HOLD_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable or disable "Private Hold".
Value Range	• Y: Enable private hold • N: Disable
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	• 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	• 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	- 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

NOTIFY_BACK_KEY_DISPLAY_MODE (For KX-HDV230)

Value Format	INTEGER
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Description	Specifies the notification method for the following cases: - A call is incoming at a BLF key that is assigned to a DSS key on another page. - There is a conversation using a BLF key that is assigned to a DSS key on another page. Note - This setting is also applied to the function keys for the KX-HDV230. - This setting is available only when "NOTIFY_FUNC_KEY_ENABLE" is set to "Y" or "NOTIFY_DSS_KEY_ENABLE" is set to "Y".
Value Range	0: "☒" is displayed continuously. 1: "☒" and "■" are displayed alternately in intervals of 250 ms. 2: "☒" and "■" are displayed alternately in intervals of 500 ms.
Default Value	0

SPECIAL_CODE_LOG_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to record in the outgoing log calls that are made using a feature number with a Program key, Flexible key, or DSS key. Note Applicable functions: BLF, Group Call Pickup, Directed Call Pickup (except KX-HDV130) For details about setting Program keys, Flexible keys, and DSS keys, refer to "4.6.4 Program Key (No. 1–2) (For KX-HDV130)", "4.6.5 Flexible Key Settings (No. 1–24) (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)", and "4.6.10 DSS Console (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)".
Value Range	Y: Enable N: Disable
Default Value	N

5.3.2 Basic Network Settings

IP_ADDR_MODE

Value Format	INTEGER
Description	Specifies the IP addressing mode.
Value Range	0: IPv4 1: IPv6 2: IPv4&IPv6
Default Value	0

Web User Interface Reference	IP Addressing Mode
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CONNECTION_TYPE

Value Format	INTEGER
Description	Specifies whether to assign the IP address automatically (DHCP) or manually (static) for IPv4.
Value Range	• 0: Static • 1: DHCP
Default Value	1
Web User Interface Reference	Connection Mode

STATIC_IP_ADDRESS

Value Format	IPADDR
Description	Specifies the IP address for the unit for IPv4. Note • 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	Specifies the subnet mask for IPv4. Note • 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
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Description	Specifies the IP address of the default gateway for the IPv4 network where the unit is connected. Note • 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 • 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 • 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
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Description	Specifies whether to enable or disable using the DNS server obtained by DHCPv4. Note This setting is available only when "CONNECTION_TYPE" is set to "1".
Value Range	✕: 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 Note - 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	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=0-FFFF, 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
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=0-FFFF, 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=0-FFFF, 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=0-FFFF, 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	• 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

DHCPD_RECOVERY_TIME (For KX-HDV130)

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

5.3.3 Ethernet Port Settings**PHY_MODE_LAN**

Value Format	INTEGER
Description	Specifies the link speed and duplex mode of the LAN port.
Value Range	• 1: Auto • 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

PHY_MODE_PC

Value Format	INTEGER
Description	Specifies the link speed and duplex mode of the PC port.
Value Range	• 1: Auto • 2: 100Mbps/Full Duplex • 3: 100Mbps/Half Duplex • 4: 10Mbps/Full Duplex • 5: 10Mbps/Half Duplex
Default Value	1
Web User Interface Reference	PC Port

VLAN_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to use the VLAN feature to perform VoIP communication securely. Note • 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	• 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	IP Phone VLAN ID

VLAN_PRI_IP_PHONE

Value Format	INTEGER
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Description	Specifies the priority number for the unit.
Value Range	0–7
Default Value	7
Web User Interface Reference	IP Phone Priority

VLAN_ID_PC

Value Format	INTEGER
Description	Specifies the VLAN ID for the PC.
Value Range	0–4094
Default Value	1
Web User Interface Reference	PC VLAN ID

VLAN_PRI_PC

Value Format	INTEGER
Description	Specifies the priority number for the PC.
Value Range	0–7
Default Value	0
Web User Interface Reference	PC Priority

VLAN_EGTAG_PC_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable the tag information from packets to the PC port when VLAN is enabled.
Value Range	- Y: Enable - N: Disable
Default Value	N

LLDP_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable or disable the LLDP-MED feature. Note 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	- 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

LLDP_VLAN_ID_PC

Value Format	INTEGER
Description	Specifies the VLAN ID for the PC when LLDP is on.
Value Range	0–4094
Default Value	0
Web User Interface Reference	PC VLAN ID

LLDP_VLAN_PRI_PC

Value Format	INTEGER
Description	Specifies the VLAN Priority for the PC when LLDP is on.
Value Range	0–7
Default Value	0
Web User Interface Reference	PC Priority

CDP_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable the CDP feature.
Value Range	- 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
Default Value	30

Web User Interface Reference	Packet Interval
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VLAN_CONTROL_PC_ENABLE (For KX-HDV130/KX-HDV230)

Value Format	BOOLEAN
Description	Specifies whether to control the VLAN on the PC port.
Value Range	• Y: Controls the VLAN on the PC port with settings for CDP (Native VLAN)/LLDP/VLAN. • N: Do not control the VLAN on the PC port regardless of settings for CDP (Native VLAN)/LLDP/VLAN. Note If "N" is specified, the following settings will be invalid. • Configuration File Parameter – VLAN_ID_PC – VLAN_PRI_PC – LLDP_VLAN_ID_PC – LLDP_VLAN_PRI_PC – VLAN_EG_TAG_PC_ENABLE • Web User Interface The following settings will be grayed out. – Ethernet Port Settings - LLDP - PC VLAN ID – Ethernet Port Settings - LLDP - PC Priority – Ethernet Port Settings - VLAN - PC VLAN ID – Ethernet Port Settings - VLAN - PC Priority The following settings will not be displayed. – Status - Network Status - VLAN - PC Port VLAN ID – Status - Network Status - VLAN - PC Port VLAN Priority • Phone User Interface The following settings will not be displayed. – System Settings - Network Settings - LLDP - PC Port – System Settings - Network Settings - VLAN - PC – System Settings - Status - VLAN - PC
Default Value	Y

5.3.4 Pre-Provisioning Settings

SIPPNP_PROV_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable or disable the SIP PNP provisioning.
Value Range	• Y: Enable SIP PnP provisioning • N: Disable

Default Value	Y
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OPTION66_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable or disable the DHCP option 66 provisioning. Note 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	- 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	- 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	- 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	- Y: Enable DHCPv6 option17 provisioning - N: Disable
Default Value	Y

5.3.5 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 - If this URL ends with "/" (slash), "Config{mac}.cfg" is automatically added at the end of the URL. For example, CFG_STANDARD_FILE_PATH="http:// host/dir/" becomes CFG_STANDARD_FILE_PATH="http://host/dir/Config{mac}.cfg". - 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 - If this URL ends with "/" (slash), "{MODEL}.cfg" is automatically added at the end of the URL. For example, CFG_PRODUCT_FILE_PATH="http://host/ dir/" becomes CFG_PRODUCT_FILE_PATH="http:// host/dir/{MODEL}.cfg". - 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 Note - If this URL ends with "/" (slash), "<code>sip.cfg</code>" 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	<code>Y</code>: Enable periodic synchronization <code>N</code>: Disable
Default Value	<code>N</code>
Web User Interface Reference	Cyclic Auto Resync

CFG_CYCLIC_INTVL

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 - 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. - 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
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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. Note This setting is available only when "CFG_CYCLIC" is set to "Y".
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. Note - If "Header Value for Resync Event" or "CFG_RESYNC_FROM_SIP" is set to "check-sync", the operation after receiving NOTIFY from the server depends on the "Event" header in NOTIFY. - Event: check-sync Follows the setting of "CFG_RESYNC_ACTION" - Event: check-sync;reboot=true Reboots when in standby - Event: check-sync;forcedreboot=true Reboots immediately
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	0: Provisioning 1: TR-069 Inform 2: Reboot
Default Value	0

CFG_FILE_KEY2

Value Format	STRING
Description	Specifies the encryption key (password) used to decrypt configuration files. Note If the extension of the configuration file is ".e2c", the configuration file will be decrypted using this key.
Value Range	32 characters Note 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 If the extension of the configuration file is ".e3c", the configuration file will be decrypted using this key.
Value Range	32 characters Note 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 Changing this setting may require restarting the unit.

Value Range	Max. 384 characters Note 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 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 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	• 0: No verification of root certificate • 1: Simple verification of root certificate • 2: Precise verification of root certificate Note • 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	• 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 • If set to "Y", verification will be performed according to the value set for "HTTP_SSL_VERIFY".
Value Range	• Y: Enable • N: Disable

5.3.6 Firmware Update Settings

Default Value	N
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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	• 0: Allow the specified settings through the phone interface or the Web interface to be changed by all types of configuration files (Standard, Product, and Master). • 1: Disallow the specified settings through the phone interface or the Web interface to be changed by the Master configuration file. • 2: Disallow the specified settings through the phone interface or the Web interface to be changed by all types of configuration files (Standard, Product, and Master).
Default Value	0

5.3.6 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 • Manual firmware updates from the Web user interface (→ see 4.7.3 Upgrade Firmware (For KX-HDV130/KX-HDV230)) can be performed regardless of this setting. (For KX-HDV130/KX-HDV230) • Firmware updates using TR-069 can be performed regardless of this setting.
Value Range	• 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 • This setting is available only when "FIRM_UPGRADE_ENABLE" is set to "Y".

Value Range	Max. 384 characters
	Note If "{fwver}" is included in this parameter, it will be replaced with the value specified in "FIRM_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
Web User Interface Reference	Firmware Version (For KX-HDV330/KX-HDV340/KX-HDV430)

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

5.3.7 HTTP Settings

HTTP_VER

Value Format	INTEGER
Description	Specifies which version of the HTTP protocol to use for HTTP communication.
Value Range	1: Use HTTP/1.0 0: Use HTTP/1.1 Note - 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	1
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 • 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	• 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

5.3.8 HTTPD/WEB Settings

HTTPD_LISTEN_PORT

Value Format	INTEGER
Description	Specifies the port number of own HTTP server.
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	• Y: Web port is always open • N: Web port is closed [can be opened temporarily through phone user interface programming] Notice • 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 • 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 • 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 • 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 • A hyphen (-) cannot be used as the first character.
Default Value	adminpass
Web User Interface Reference	New Password

5.3.9 TR-069 Settings**ACS_URL**

Value Format	STRING
Description	Specifies the URL of the Auto-Configuration Server for using TR-069. Note • 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	• 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 • 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 - 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 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	• Y: Enable • N: Disable
Default Value	N

ANNEX_G_STUN_SERV_ADDR

Value Format	STRING
Description	Specifies the host name or IP address of the STUN server for the CPE to send Binding Requests. Note • 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	Specifies the port number of the STUN server for the CPE to send Binding Requests. Note • 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	Specifies the STUN user name to be used in Binding Requests (only if message integrity has been requested by the STUN server). Note • 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 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 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

5.3.10 XML Settings**XMLAPP_ENABLE**

Value Format	BOOLEAN
Description	Specifies whether to enable the XML application feature.
Value Range	• x: 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. 512 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. 1024 characters ("&" may also be used)
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. 512 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
---------------------	---------

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_HTTPD_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	• Y: Error information is displayed • N: Error information is not displayed
Default Value	Y

XMLAPP_START_URL

Value Format	STRING
Description	Specifies the URL that is accessed when the unit starts up, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Empty string
Web User Interface Reference	Bootup URL

XMLAPP_INITIAL_URL

Value Format	STRING
Description	Specifies the URL that is accessed when the application is started from the unit's menu, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Empty string
Web User Interface Reference	Initial URL

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. 1024 characters ("&" may also be used)
Default Value	Empty string
Web User Interface Reference	Incoming Call URL

XMLAPP_TALKING_URL

Value Format	STRING
Description	Specifies the URL that is accessed when the unit is on a call, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Empty string
Web User Interface Reference	Talking URL

XMLAPP_MAKECALL_URL

Value Format	STRING
Description	Specifies the URL that is accessed when the unit makes a call, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Empty string
Web User Interface Reference	Making Call URL

XMLAPP_CALLLOG_URL

Value Format	STRING
Description	Specifies the URL that is accessed when the call log is accessed, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Empty string
Web User Interface Reference	Call Log URL

XMLAPP_IDLING_URL

Value Format	STRING
Description	Specifies the URL that is accessed when the unit is idle, to check for XML data.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Empty string
Web User Interface Reference	Idling URL

XML_INITIATE_KEY_SOFT1 (For KX-HDV130/KX-HDV230)

Value Format	BOOLEAN
---------------------	---------

Description	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed during standby mode.
Value Range	• Y: Enable XML application • N: Normal operation
Default Value	N
Web User Interface Reference	Soft Key A (Left)

XML_INITIATE_KEY_SOFT2 (For KX-HDV130/KX-HDV230)

Value Format	BOOLEAN
Description	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed during standby mode.
Value Range	• Y: Enable XML application • N: Normal operation
Default Value	N
Web User Interface Reference	Soft Key B (Center)

XML_INITIATE_KEY_SOFT3 (For KX-HDV130/KX-HDV230)

Value Format	BOOLEAN
Description	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed during standby mode.
Value Range	• Y: Enable XML application • N: Normal operation
Default Value	N
Web User Interface Reference	Soft Key C (Right)

XMLAPP_FFKEY_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed.
Value Range	• Y: XML Mode • N: Normal Telephone Mode
Default Value	N
Web User Interface Reference	Enable FF Key

XML_SOFT_KEY_NAME_x (For KX-HDV130/KX-HDV230)

Value Format	STRING
---------------------	--------

Description	x=1-3 Specifies the name of Soft Key A/B/C assigned to an XML application.
Value Range	Max. 16 characters
Default Value	XML

XMLAPP_URL_SOFT_KEYx (For KX-HDV130/KX-HDV230)

Value Format	STRING
Description	x=1-3 Specifies the URL that is accessed when the soft key A/B/C is pressed.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Empty string

XMLAPP_URL_FLEX_BUTTONx

Value Format	STRING
Description	x=1-2 — KX-HDV130 x=1-24 — KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430 Specifies the URL that is accessed when the FFx key is pressed.
Value Range	Max. 1024 characters ("&" may also be used)
Default Value	Empty string

XMLAPP_STATUSBAR_ENABLE (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	BOOLEAN
Description	Specifies whether to enable or disable the Status Bar XML application feature.
Value Range	- Y: Enable the Status Bar XML application feature - N: Disable
Default Value	Y

SYS_HOME_MENU_XML_NAMEx (For KX-HDV330/KX-HDV340/KX-HDV430)

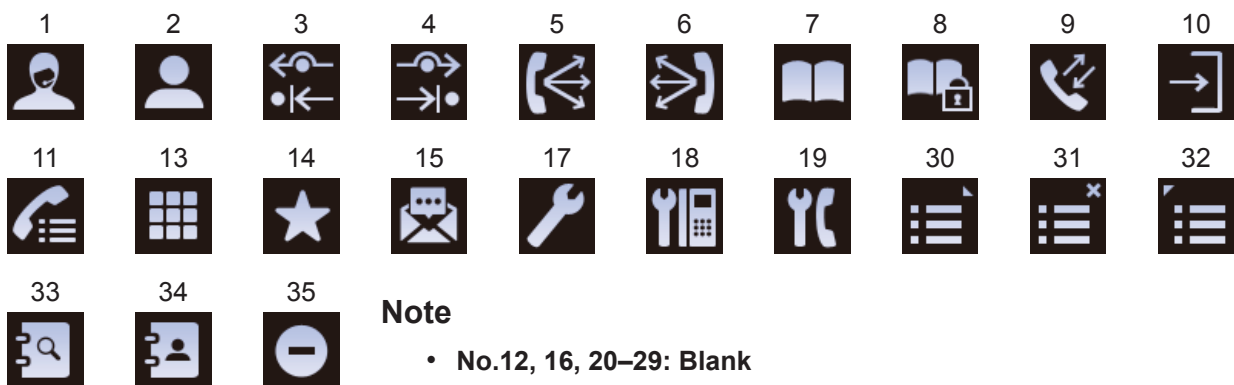
Value Format	STRING
Description	x=1–6 Specifies the name of an icon for an XML feature on the Home menu.
Value Range	Max. 24 characters
Default Value	x=1:Application 1 x=2:Application 2 x=3:Application 3 x=4:Application 4 x=5:Application 5 x=6:Application 6

SYS_HOME_MENU_XML_URLx (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	STRING
Description	x=1–6 Specifies the URL that is accessed by an XML feature on the Home menu.
Value Range	Max. 1024 characters ("&" may also be used.)
Default Value	Empty string

SYS_HOME_MENU_XML_ICONx (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	INTEGER
Description	x=1–6 Specifies feature of an icon on the Home menu.
Value Range	1–35
Default Value	13

Icon Type**Note**

- No.12, 16, 20–29: Blank

XML_PHONEBOOK_URL

Value Format	STRING
Description	Specifies the URL to download the XML phonebook file from.
Value Range	Max.1024 characters
Default Value	Empty string

XML_PHONEBOOK_CYCLIC_INTVL

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

XML_CURSOR_SKIP_ENABLE

Value Format	BOOLEAN
Description	Selects whether to skip displaying the cursor on line 1 (id=1) of the display on the XML menu.
Value Range	- Y: Enable skipping the cursor display on line 1 (id=1) - N: Disable
Default Value	N

XMLAPP_URL_REDIAL_KEY

Value Format	STRING
Description	When the redial key is defined by an XML element, specifies the URL that is accessed when the [⏏/⏏/REDIAL] key is pressed.
Value Range	Max. 1024 characters (The ampersand [&] character is available)
Default Value	Empty string

XMLAPP_RCV_IP_ADDRESSx

Value Format	IPADDR
Description	X=1-20 Specifies the IP addresses from which XML (POST) may be received. Note 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

5.3.11 XSI Settings

XSI_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable or disable the Xsi service.
Value Range	- Y: Enable Xsi service - N: Disable
Default Value	N
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	• 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN

Description	Specifies whether to enable or disable the Xsi phonebook service.
Value Range	- 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 end with "_n", see 5.2.1 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
Default Value	1
Web User Interface Reference	Phonebook Type

XSI_CALLLOG_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable or disable the Xsi call log service.

Value Range	• Y: Enable Xsi call log • N: Disable
Default Value	N
Web User Interface Reference	Enable Call Log

XSI_VISUAL_VM_ENABLE_n (For KX-HDV330/KX-HDV340/KX-HDV430)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable or disable the Visual Voice Mail feature of the selected line.
Value Range	• Y: Enable Visual Voice Mail • N: Disable
Default Value	N
Web User Interface Reference	Enable Visual Voice Mail (For KX-HDV330/KX-HDV340/KX-HDV430)

XSI_SIP_CREDENTIALS_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable or disable the XSI SIP Credentials feature.
Value Range	• Y: Enable XSI SIP Credentials • N: Disable
Default Value	N
Web User Interface Reference	SIP Credentials

BSD_MULTI_TYPE_ENABLE

Value Format	BOOLEAN
Description	Specifies whether you can select the type of Xsi phonebook.
Value Range	• Y: Enable • N: Disable
Default Value	N

BSD_GROUP_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable or disable the "Group" type for Xsi phonebooks.
Value Range	• Y : Enable • N : Disable
Default Value	N

Web User Interface Reference	Group
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BSD_GROUPCOM_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable or disable the "GroupCommon" type for Xsi phonebooks.
Value Range	• Y : Enable • N : Disable
Default Value	N
Web User Interface Reference	GroupCommon

BSD_ENTERPRISE_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable or disable the "Enterprise" type for Xsi phonebooks.
Value Range	• Y : Enable • N : Disable
Default Value	N
Web User Interface Reference	Enterprise

BSD_ENTERPRISECOM_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable or disable the "EnterpriseCommon" type for Xsi phonebooks.
Value Range	• Y : Enable • N : Disable
Default Value	N
Web User Interface Reference	EnterpriseCommon

BSD_PERSONAL_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable or disable the "Personal" type for Xsi phonebooks.
Value Range	• Y : Enable • N : Disable

5.3.12 XMPP (UC-ONE) Settings

Default Value	N
Web User Interface Reference	Personal

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

5.3.12 XMPP (UC-ONE) Settings

UC_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable the UC service.
Value Range	• Y: Enable UC service • N: Disable
Default Value	N
Web User Interface Reference	Enable UC

UC_USERID

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	User ID

UC_PASSWORD

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	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
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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.
Value Range	Max. 384 characters Note 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 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 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	Y: Enable DNS SRV lookup N: 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	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	0-4 — 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	• Y: Invisible • N: Offline
Default Value	N

5.3.13 LDAP Settings**LDAP_ENABLE**

Value Format	BOOLEAN
Description	Specifies whether to enable or disable the LDAP service.
Value Range	• Y: Enable LDAP service • N: Disable
Default Value	N
Web User Interface Reference	Enable LDAP

LDAP_DNSSRV_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to request the DNS server to translate domain names into IP addresses using the SRV record.
Value Range	• 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 server host of LDAP.
Value Range	Max. 256 characters Note • 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
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Description	Specifies the port of the LDAP server.
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 authentication ID required to access the LDAP server.
Value Range	Max. 128 characters
Default Value	Empty string
Web User Interface Reference	User ID

LDAP_PASSWORD

Value Format	STRING
Description	Specifies the authentication password required to access the LDAP server.
Value Range	Max. 128 characters
Default Value	Empty string
Web User Interface Reference	Password

LDAP_NAME_FILTER

Value Format	STRING
Description	Specifies the name filter which is the search criteria for name look up.
Value Range	Max. 256 characters
Default Value	((cn=%)(sn=%))
Web User Interface Reference	Name Filter

LDAP_NUMB_FILTER

Value Format	STRING
Description	Specifies the number filter which is the search criteria for number look up.
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 name attributes of each record which are to be returned in the LDAP search result.
Value Range	Max. 256 characters
Default Value	cn,sn
Web User Interface Reference	Name Attributes

LDAP_NUMB_ATTRIBUTE

Value Format	STRING
Description	Specifies the number attributes of each record which are to be returned in the LDAP search result.
Value Range	Max. 256 characters
Default Value	telephoneNumber,mobile,homePhone
Web User Interface Reference	Number Attributes

LDAP_BASEDN

Value Format	STRING
Description	Specifies the entry information on the screen.
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_ROOT_CERT_PATH

Value Format	STRING
Description	Specifies the URI where the root certificate is stored.
Value Range	Max. 384 characters Note 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 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 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 display name by using the attributes of each record returned in the LDAP search results.

Value Range	Max. 256 characters (LDAP attributes) A unit uses the initial settings for the display if this setting is NULL.
Default Value	Empty string

5.3.14 Call Center Settings

CALL_CENTER_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to add menu items for Call Center.
Value Range	• Y: Enable • N: Disable
Default Value	N
Web User Interface Reference	Enable Call Center

ACD_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable the ACD.
Value Range	• Y: Enable • N: Disable
Default Value	N
Web User Interface Reference	Enable ACD

ACD_LOGIN_CONDITION_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies the ACD state when login to the ACD.
Value Range	• 0: Available • 1: Unavailable
Default Value	0

ACD_LOGOUT_CONDITION_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies the ACD state when logout to the ACD.
Value Range	• 0: Continue • 1: Unavailable

Default Value	1
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CC_DISPOSITION_CODE_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable the Disposition Code.
Value Range	• Y: Enable • N: Disable
Default Value	N
Web User Interface Reference	Disposition Code

CC_CUSTOMER_ORG_TRACE_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable the Customer Originated Trace.
Value Range	• Y: Enable • N: Disable
Default Value	N
Web User Interface Reference	Customer Originated Trace

CC_HOTELING_EVENT_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable the Hoteling Event.
Value Range	• Y: Enable • N: Disable
Default Value	N
Web User Interface Reference	Hoteling Event

HOTELING_USERID_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	STRING
Description	Specifies the authentication ID required to access the Hoteling service.
Value Range	Max. 32 characters
Default Value	Empty string
Web User Interface Reference	- User ID

HOTELING_PASSWORD_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	STRING
Description	Specifies the authentication password required to access the Hoteling service.
Value Range	Max. 128 characters
Default Value	Empty string
Web User Interface Reference	- Password

CC_STATUS_EVENT_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable the Status Event.
Value Range	- Y: Enable - N: Disable
Default Value	N
Web User Interface Reference	Status Event

UC_HOTELING_MODE

Value Format	INTEGER
Description	Specifies the Flexible Seating mode. This service allows a guest to use the host's device as his own.
Value Range	0: Hoteling not supported 1: Hoteling supported 2: Host 3: Guest
Default Value	0

UC_FLEXIBLESEATING_UNLOCKPIN

Value Format	STRING
Description	Specifies the unlock PIN for Flexible Seating.
Value Range	4–10 digits
Default Value	Empty string

CC_UNAVAILABLE_REASON_ENABLE (For KX-HDV130/KX-HDV230)

Value Format	BOOLEAN
Description	Specifies whether to send notifications about the reason for the "Unavailable" status when ACD[Wrap Up] is assigned to a program key or DSS key.

5.3.15 SNMP Settings

Value Range	• Y: Enable • N: Disable
Default Value	N

CC_UNAVAILABLE_CODE_x (For KX-HDV130/KX-HDV230)

Value Format	STRING
Description	x=1–10 Specifies the numeric "Unavailable" code when ACD[Wrap Up] is "Unavailable".
Value Range	Max. 10 digits
Default Value	Empty string

CC_UNAVAILABLE_NAME_x (For KX-HDV130/KX-HDV230)

Value Format	STRING
Description	x=1–10 Specifies the "Unavailable" name when ACD[Wrap Up] is "Unavailable".
Value Range	Max. 40 characters
Default Value	Empty string

5.3.15 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	• 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.

5.3.16 Multicast Paging Settings

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

5.3.16 Multicast Paging Settings

MPAGE_ADDRm

Parameter Name Example	MPAGE_ADDR1, MPAGE_ADDR2, ..., MPAGE_ADDR5
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

Parameter Name Example	MPAGE_IPV6_ADDR1, MPAGE_IPV6_ADDR2, ..., MPAGE_IPV6_ADDR5
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

Parameter Name Example	MPAGE_PORT1, MPAGE_PORT2, ..., MPAGE_PORT5
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)
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MPAGE_PRIORITY_m

Parameter Name Example	MPAGE_PRIORITY1, MPAGE_PRIORITY2, MPAGE_PRIORITY3
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_LABEL_m

Parameter Name Example	MPAGE_LABEL1, MPAGE_LABEL2, ..., MPAGE_LABEL5
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_ENABLE_m

Parameter Name Example	MPAGE_SEND_ENABLE1, MPAGE_SEND_ENABLE2, ..., MPAGE_SEND_ENABLE5
Value Format	BOOLEAN
Description	Specifies the sending multi-cast paging. (m=1–5, the channel group)
Value Range	- 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"
Default Value	0

MPAGE_SP_VOL_EMERGENCY

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

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

Value Format	BOOLEAN
Description	Specifies the DND setting (on/off) for multi-cast paging.
Value Range	- 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	- Y: Enable - N: Disable
Default Value	N

5.3.17 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 (Synchronisation Interval)

5.3.18 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 - If this parameter is specified, the following parameters are disabled, and operation will be based on this parameter. – TIME_ZONE – DST_ENABLE – DST_OFFSET – DST_START_MONTH – DST_START_ORDINAL_DAY – DST_START_DAY_OF_WEEK – DST_START_TIME – DST_STOP_MONTH – DST_STOP_ORDINAL_DAY – DST_STOP_DAY_OF_WEEK – DST_STOP_TIME
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 - 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 "LOCAL_TIME_ZONE_POSIX" 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 This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified.
Value Range	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
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Description	Specifies the amount of time, in minutes, to change the time when "DST_ENABLE" is set to "Y". Note This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified.
Value Range	0–720 Note 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 This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" 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 "DST_START_DAY_OF_WEEK". For example, to specify the second Sunday, specify "2" in this parameter, and "0" in the next parameter. Note This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" 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 This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified.
Value Range	0–6 – 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 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 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 This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" 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	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 This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified.
Value Range	0–6 – 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
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Description	Specifies the end time of DST (Summer Time) in minutes after 12:00 AM. Note 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

5.3.19 Network Phonebook (Common)

ONLY_NPB_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to be available the unit phonebook when the network phonebook is enabled.
Value Range	- Y: Not use unit phonebook - N: Use unit 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	- Y: Enable phonebook search - N: Disable
Default Value	N

NW_PHONEBOOK_ADVANCED_SEARCH

Value Format	BOOLEAN
Description	Specifies whether to perform a narrowing search with the LDAP phonebook.
Value Range	- Y: Enable - N: Disable
Default Value	N

5.3.20 Language Settings

AVAILABLE_LANGUAGE

Value Format	STRING
Description	Specifies the selectable language on the unit.

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 4.4.1.1 Selectable Language
Web User Interface Reference	IP Phone

DEFAULT_LANGUAGE

Value Format	STRING
Description	Specifies the default language on the unit.
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 4.4.1.1 Selectable Language
Default Value	en
Web User Interface Reference	IP Phone

LANGUAGE_PATHx

Parameter Name Example	LANGUAGE_PATH1, LANGUAGE_PATH2, ..., LANGUAGE_PATH10
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

LANGUAGE_VERx

Parameter Name Example	LANGUAGE_VER1, LANGUAGE_VER2, ..., LANGUAGE_VER10
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

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 4.4.1.1 Selectable Language
Web User Interface Reference	Web Language

WEB_LANGUAGE

Value Format	STRING
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Description	Specifies the default language on the unit.
Value Range	en, es, fr, de, it, nl, el, hu, pt, pl, sk, cs, sh, ru, uk, tr, ro, ct, kk, me → see 4.4.1.1 Selectable Language
Default Value	en
Web User Interface Reference	Web Language

WEB_LANGUAGE_PATHx

Parameter Name Example	WEB_LANGUAGE_PATH1, WEB_LANGUAGE_PATH2, ..., WEB_LANGUAGE_PATH10
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

Parameter Name Example	WEB_LANGUAGE_VER1, WEB_LANGUAGE_VER2, ..., WEB_LANGUAGE_VER10
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

5.3.21 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

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	- Y: 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

Value Format	INTEGER
Description	KX-HDV130 : x=1-3 KX-HDV230/KX-HDV330/KX-HDV340 : x=1-24 KX-HDV430 : x=1-48 Specifies the port number of the router in Static NAT status.
Value Range	0, 1024–59998 (only even ports) 0: Disable
Default Value	0

5.3.22 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 - 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 end with "_n", see 5.2.1 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. Note When registering using a user ID that is not a phone number, you should use the "SIP_URI_n" setting.
Value Range	Max. 32 characters
Default Value	Empty string
Web User Interface Reference	Phone Number

SIP_URI_n

For details about parameter names end with "_n", see 5.2.1 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". Note - 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	Empty string
Web User Interface Reference	SIP URI

SIP_RGSTR_ADDR_n

For details about parameter names end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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
Web User Interface Reference	Outbound Proxy Server Address

SIP_OUTPROXY_PORT_n

For details about parameter names end with "_n", see 5.2.1 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_DNSSRV_ENA_NAPTR_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable the use of the NAPTR sequence.
Value Range	- Y: Enable - N: Disable
Default Value	N

SIP_SVCDOMAIN_n

For details about parameter names end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies the source port number used by the unit for SIP communication.
Value Range	1024–49151 Note The SIP port number for each line must be unique.
Default Value	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"
Web User Interface Reference	Local SIP Port

DSCP_SIP_n

For details about parameter names end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to request the DNS server to translate domain names into IP addresses using the SRV record.
Value Range	• Y: Enable DNS SRV lookup • N: Disable DNS SRV lookup Note • 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 end with "_n", see 5.2.1 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 • 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 end with "_n", see 5.2.1 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 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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_INTVL_n

For details about parameter names end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN

Description	Specifies whether to enable cancelation before registration when, for example, the unit is turned on.
Value Range	• Y: Send un-REGISTER • N: Does not send
Default Value	N

USE_DEL_REG_CLOSE_n

For details about parameter names end with "_n", see 5.2.1 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	• Y: Send un-REGISTER • N: Does not send
Default Value	N

SIP_SESSION_TIME_n

For details about parameter names end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies the refreshing method of SIP sessions.
Value Range	0–2 – 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 end with "_n", see 5.2.1 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	• 250 • 500 • 1000 • 2000 • 4000
Default Value	500
Web User Interface Reference	T1 Timer

SIP_TIMER_T2_n

For details about parameter names end with "_n", see 5.2.1 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	• 2 • 4 • 8 • 16 • 32
Default Value	4
Web User Interface Reference	T2 Timer

SIP_TIMER_T4_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies the maximum period, in seconds, that a message can remain on the network.
Value Range	• 0 • 1 • 2 • 3 • 4 • 5
Default Value	5

SIP_TIMER_B_n

For details about parameter names end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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	• Y: Enable 100rel function • N: Disable 100rel function Note • 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
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 end with "_n", see 5.2.1 Configuration File Parameters	
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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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to add the "P-Preferred-Identity" header to SIP messages.
Value Range	• 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to add the "Privacy" header to SIP messages.
Value Range	• Y: Add the "Privacy" header • N: Do not add the "Privacy" header
Default Value	N

ADD_USER_PHONE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to add "user=phone" to the SIP URI in SIP messages.
Value Range	• Y: Add "user=phone" • N: Do not add "user=phone" Note • SIP URI example: – "sip:1111@tokyo.example.com;user=phone", when set to "Y" – "sip:1111@tokyo.example.com", when set to "N"
Default Value	N

SIP_ANM_DISPNAME_n

For details about parameter names end with "_n", see 5.2.1 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	• 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 end with "_n", see 5.2.1 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	• 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 end with "_n", see 5.2.1 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	• Y: Use "anonymous.invalid" for host name • N: Use normal host name
Default Value	N

SIP_DETECT_SSAF_n

For details about parameter names end with "_n", see 5.2.1 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	• Y: Enable SSAF • N: Disable SSAF Note • 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 5.3.22 SIP Settings is specified, the unit also receives SIP messages from the source address stored in the SIP outbound proxy server.
Default Value	N
Web User Interface Reference	Enable SSAF (SIP Source Address Filter)

SIP_RCV_DET_HEADER_n

For details about parameter names end with "_n", see 5.2.1 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	• Y: Enable username check • N: Disable username check Note • 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 end with "_n", see 5.2.1 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	• Y • N
Default Value	N

SIP_CONTACT_ON_ACK_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN

Description	Specifies whether to add the "Contact" header to SIP ACK message.
Value Range	• 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	• 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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	• Y: Enable fail-over • N: Disable fail-over Note • 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 end with "_n", see 5.2.1 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	1–4
Default Value	2

SIP_FOVR_MODE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether INVITE/SUBSCRIBE will also follow the REGISTER Failover result.
Value Range	• Y: INVITE/SUBSCRIBE will follow the REGISTER Failover result. • N: INVITE/SUBSCRIBE will not follow the REGISTER Failover result.
Default Value	N

SIP_FOVR_DURATION_n

For details about parameter names end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether or not to add Route headers when setting OutBoundProxy. Note • Route headers are not added when OutBoundProxy and other server settings are the same.
Value Range	• Y: Route headers are added • N: Route headers are not added
Default Value	Y

SIP_REQURI_PORT_n

For details about parameter names end with "_n", see 5.2.1 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	• Y: Add the port parameter • N: Do not add the port parameter Note • Request URI in REGISTER example: – 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 end with "_n", see 5.2.1 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	• Y: Add Expires Header • N: Do not add Expires Header
Default Value	N

ADD_TRANSPORT_UDP_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to add the attribute "transport=udp" to the SIP header URI.
Value Range	• Y: Add Transport UDP • N: Do not add Transport UDP
Default Value	N

SIP_ADD_DIVERSION_n

For details about parameter names end with "_n", see 5.2.1 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 that the original call is resumed when the forwarding party does not response by Refer method for call transfer.
Value Range	0, 1–240
Default Value	0

SIGNAL_COMPRESSION_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies whether to use signal compression. When using signal compression, select Required or Supported.
Value Range	• 0: Disable • 1: Enable (Required) • 2: Enable (Supported)
Default Value	0

MAX_BREADTH_n

For details about parameter names end with "_n", see 5.2.1 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

RINGTONE_183_180_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 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	• 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 end with "_n", see 5.2.1 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	• Y: Send • N: Do not send
Default Value	N

SIP_FORK_MODE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to use SIP Fork.
Value Range	• Y: Use SIP Fork • N: Not use SIP Fork
Default Value	Y

RFC2543_HOLD_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable the RFC 2543 Call Hold feature on this line.
Value Range	• Y: Enable RFC 2543 Call Hold • N: Disable RFC 2543 Call Hold Note • 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies whether to set "a=inactive " or not when the call is on hold.
Value Range	• 0: send only • 1: inactive
Default Value	0

SDP_USER_ID_n

For details about parameter names end with "_n", see 5.2.1 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

TELEVENT_PAYLOAD

Value Format	INTEGER
Description	Specifies the RFC 2833 payload type for DTMF tones. Note 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	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. Note - It is necessary to set the following parameters to play the unit's hold tone. - HOLD_TONE_FRQ - HOLD_TONE_GAIN
Value Range	0–1 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 end with "_n", see 5.2.1 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	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	• 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	• 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	• Y: Convert "#" code to "%23" • N: Does not convert
Default Value	Y

SIP_REPLACE_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to use "Replaces" Header.
Value Range	• Y: Use "Replaces" Header • N: Do not use "Replaces" Header
Default Value	Y

SIP_REFRESHER_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies whether to add the refresher parameter for Session Expire in SIP INVITE.

Value Range	0–2 – 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable Enhanced Failover mode.
Value Range	• Y: Enable • N: Disable
Default Value	N

ENH_FOVR_RANDOM_TIMER_n

For details about parameter names end with "_n", see 5.2.1 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 • This setting is available only when "ENH_FOVR_ENABLE_n" is set to "Y". • For the fixed value setting, see "REG_RTX_INTVL_n" in this section.
Value Range	• Y: Use a random value • N: Use a fixed value
Default Value	N

ENH_FOVR_RANDOM_MAX_TIME_n

For details about parameter names end with "_n", see 5.2.1 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 • 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 end with "_n", see 5.2.1 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 This setting is available only when "ENH_FOVR_RANDOM_TIMER_n" is set to "Y".
Value Range	10-86400
Default Value	10

SIP_INC_INVITE_RTP_MODE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies whether to send RTP after receiving a second INVITE.
Value Range	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	- Y: Talking - N: Calling
Default Value	N

SEND_180_ALERT_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to send 180 before an alert.
Value Range	- Y: Send 180 - N: Do not send 180
Default Value	N

INVITE_403_REGSEND_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 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	• Y: Enable • N: Disable
Default Value	N

ESCAPECODE_CONVERSION_RFC3986

Value Format	BOOLEAN
Description	Specifies whether to comply with RFC2396 or RFC3986 for reserved characters.
Value Range	• Y: RFC3986 compliant • N: RFC2396 compliant
Default Value	N

ENH_FOVR_RESPONSE_CODE

Value Format	STRING
Description	Specifies the error code for failover. Note • 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 end with "_n", see "5.2.1 Configuration File Parameters" in Administrator Guide.	
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	• Y: Enable • N: Disable
Default Value	Y

ENH_FOVR_INVITE_ENABLE_n

For details about parameter names end with "_n", see "5.2.1 Configuration File Parameters" in Administrator Guide.	
Value Format	BOOLEAN
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	• Y: Enable • N: Disable
Default Value	Y

ENH_FOVR_SUBSCRIBE_ENABLE_n

For details about parameter names end with "_n", see "5.2.1 Configuration File Parameters" in Administrator Guide.	
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	• Y: Enable • N: Disable
Default Value	Y

ENH_FOVR_BYE_ENABLE_n

For details about parameter names end with "_n", see "5.2.1 Configuration File Parameters" in Administrator Guide.	
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	• Y: Enable • N: Disable
Default Value	Y

SUBSCRIBE_403_REGSEND_ENABLE_n

For details about parameter names end with "_n", see "5.2.1 Configuration File Parameters" in Administrator Guide.	
Value Format	BOOLEAN
Description	Specifies whether to send a REGISTER request when "403" is received as the response to a SUBSCRIBE request.
Value Range	• Y: Send • N: Do not send
Default Value	N

SIP_UDP_RANDOM_PORT

Value Format	BOOLEAN
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Description	Specifies whether to assign a source port number randomly (ephemeral port) or to use a static source port number when using UDP. Note This parameter applies to all lines that use UDP.
Value Range	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

5.3.23 SIP-TLS Settings

SIP_TRANSPORT_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies which transport layer protocol to use for sending SIP packets.
Value Range	0: UDP 1: TCP 2: TLS
Default Value	0
Web User Interface Reference	Transport Protocol

SIP_TLS_MODE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies the secure SIP protocol.
Value Range	0: SIPS 1: SIP-TLS
Default Value	0
Web User Interface Reference	TLS Mode

SIP_TLS_RECONNECT_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to perform TLS reconnect after TLS session is disconnected.
Value Range	Y: Performs TLS connection automatically N: Does not perform

Default Value	y
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SIP_TLS_SRV_PREFIX_n

For details about parameter names end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 Configuration File Parameters	
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

SIP_TLS_ROOT_CERT_PATH

Value Format	STRING
Description	Specifies the URI where the root certificate is stored.
Value Range	Max. 384 characters Note • 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 • 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 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 - All lines that use SIP-TLS are defined by this parameter. - UDP/TCP ports are unaffected by this parameter.
Value Range	Y: Assign a random TLS port number N: Assign a static TLS port number (Refer to SIP_SRC_PORT_n)
Default Value	Y

5.3.24 CODEC Settings

CODEC_G729_PARAM_n

For details about parameter names end with "_n", see 5.2.1 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	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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN

Description	Specifies whether to enable the codec specified in the parameter list. Note - The "x" character in the parameter title should be changed to one of the following numbers, according to the codec to be changed. 0: G.722 1: PCMA 3: G.729A 4: PCMU - For codec setting examples, see 2.5.1 Examples of Codec Settings.
Value Range	- Y: Enable - N: Disable
Default Value	Y
Web User Interface Reference	- G.722 Enable - PCMA Enable - G.729A Enable - PCMU Enable

CODEC_PRIORITYx_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies the priority order for the codec. Note - The "x" character in the parameter title should be changed to one of the following numbers, according to the codec to be changed. 0: G.722 1: PCMA 3: G.729A 4: PCMU - For codec setting examples, see 2.5.1 Examples of Codec Settings.
Value Range	1–255
Default Value	1

Web User Interface Reference	• G.722 Priority • PCMA Priority • G.729A Priority • PCMU Priority
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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	• 0: Do not set "PCMU" • 1: Set "PCMU"
Default Value	1

5.3.25 DTMF Settings

DTMF_METHOD_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies the method to notify the DTMF.
Value Range	• 0: RFC2833 • 1: Inband • 2: SIP INFO • 3: RFC2833 & SIP INFO Note • 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

5.3.26 RTP/RTCP/RTCP-XR Settings**DSCP_RTP_n**

For details about parameter names end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies the maximum delay, in 10-millisecond units, of the jitter buffer.

Value Range	3–50 (× 10 ms) Note - This setting is subject to the following conditions: – 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies the minimum delay, in 10-millisecond units, of the jitter buffer.
Value Range	1 or 2 (× 10 ms) Note - This setting is subject to the following conditions: – This value must be less than "MAX_DELAY"
Default Value	2

NOM_DELAY_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies the initial delay, in 10-millisecond units, of the jitter buffer.
Value Range	1–7 (× 10 ms) Note - This setting is subject to the following conditions: – 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
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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_PTME

Value Format	INTEGER
Description	Specifies the interval, in milliseconds, between transmissions of RTP packets.
Value Range	• 20 • 30 • 40 • 60
Default Value	20
Web User Interface Reference	RTP Packet Time

RTCP_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 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	• Y: Enable RTCP • N: Disable RTCP
Default Value	N
Web User Interface Reference	Enable RTCP

RTCP_INTVL_n

For details about parameter names end with "_n", see 5.2.1 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER

Description	Specifies whether to send RTCP signals by SDP (Session Description Protocol).
Value Range	0–1 – 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable processing to close held RTP sockets.
Value Range	• Y: Enable RTP Close • N: Disable RTP Close
Default Value	N

RTCPXR_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable or disable RTCP-XR.
Value Range	• Y: Enable RTCP-XR • N: Disable
Default Value	N
Web User Interface Reference	Enable RTCP-XR

5.3.27 SRTP Settings

SRTP_CONNECT_MODE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies the mode of SRTP feature.

Value Range	• 0: SRTP • 1: RTP/SRTP • 2: Panasonic Original • 3: SRTP/RTP Note • 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to allow conferences where each participant can use either SRTP or RTP.
Value Range	• 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 end with "_n", see 5.2.1 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	• 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	• Y: Enable • N: Disable
Default Value	Y

SRTP_CALL_MODE_ENABLE (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	BOOLEAN
Description	Specifies whether to enable the unit to use only encrypted call mode (SRTP dedicated mode).
Value Range	• Y: Enable only encrypted call mode (SRTP dedicated mode) • N: Disable
Default Value	N

DISPLAY_SRTP_CALL_ENABLE

Value Format	BOOLEAN
Description	Selects whether an icon is displayed when the unit is using encrypted call mode (SRTP). Note If you enable displaying the encrypted call mode icon during SRTP calls, it is recommended that you set SIP_TRANSPORT_n="2" to encrypt the SIP packets using TLS encryption.
Value Range	• Y: Display an icon for encrypted calls • N: Disable
Default Value	N

SRTP_VIDEO_CALL_SDP_ENABLE_n (For KX-HDV430)

Parameter Name Example	For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters
Value Format	BOOLEAN
Description	Specifies whether to enable video calls with SDP in SRTP mode.
Value Range	• Y: Enable to Video Call for SDP • N: Disable
Default Value	Y

5.3.28 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	• 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	• 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	- 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	- Y: Send VQREPORT when a change of codec is detected - N: Send VQREPORT at the end of a conversation

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Default Value	N
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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) Note 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	- Y: Enable - N: Disable
Default Value	N

5.3.29 uaCSTA Settings

UACSTA_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable or disable the uaCSTA feature.
Value Range	- Y: Enable - N: Disable
Default Value	N

UACSTA_UNIQUE_ID

Value Format	STRING
Description	Specifies the SIP-URI for registering to CSTA server.
Value Range	Max. 64 characters

Default Value	Empty string
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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	• 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

5.3.30 Telephone Settings**POWER_ON_DISPLAY_LOGO_PATH**

Value Format	STRING
Description	Specifies URI for logo image file displayed when power is turned on. Note KX-HDV130/KX-HDV230 • Size: 132 × 64 • File type: BMP (1 bit) KX-HDV330/KX-HDV340/KX-HDV430 • Size: 480 × 272 • File type: JPEG, PNG, BMP, GIF
Value Range	Max. 384 characters Note • 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	- 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

RINGTONE_SETTING_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	INTEGER
Description	Specifies the ringtone to each line for a unit.
Value Range	1–32
Default Value	RINGTONE_SETTING_1=1, RINGTONE_SETTING_2=2, RINGTONE_SETTING_3=3, RINGTONE_SETTING_4=4, RINGTONE_SETTING_5=5, RINGTONE_SETTING_6=6, RINGTONE_SETTING_7=7, RINGTONE_SETTING_8=8, RINGTONE_SETTING_9=1, RINGTONE_SETTING_10=2, RINGTONE_SETTING_11=3, RINGTONE_SETTING_12=4, RINGTONE_SETTING_13=5, RINGTONE_SETTING_14=6, RINGTONE_SETTING_15=7, RINGTONE_SETTING_16=8

DISPLAY_NAME_REPLACE

Value Format	BOOLEAN
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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	• 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

FLASH_RECALL_TERMINATE

Value Format	BOOLEAN
Description	Specifies the function of the "Flash/Recall" button during a conversation.
Value Range	• 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	• signal • flashhook
Default Value	signal

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
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CALLPARK_KEY_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to display "Call Park" in the Call Parking Func menu.
Value Range	- Y: Enable - N: Disable
Default Value	N
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 (For KX-HDV130/KX-HDV230)

Value Format	INTEGER
Description	Specifies whether to have soft key for the park retrieving. Note This feature is available only when "CALLPARK_NOTIFICATION_ENABLE_n" is set to "Y", and "NUM_PLAN_PARK_RETRIEVING" is set (see CALLPARK_NOTIFICATION_ENABLE_n, NUM_PLAN_PARK_RETRIEVING).
Value Range	0: Not Use 1: Soft Key A (Left) 2: Soft Key B (Center) 3: Soft Key C (Right)
Default Value	0
Web User Interface Reference	Park Retrieve Soft Key (For KX-HDV130/KX-HDV230)

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	• 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

ONHOOK_TRANSFER_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable on hook transfer when HOLD_TRANSFER_OPERATION="N" .
Value Range	• 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	• 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	• Y: Enable • N: Disable
Default Value	Y

SYS_LOCK_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable locking the unit.
Value Range	• Y: Enable • N: Disable
Default Value	N
Web User Interface Reference	Enable IP Phone Lock

SYS_LOCK_PASSWORD

Value Format	STRING
Description	Specifies the password for unlocking the unit.
Value Range	Null, 4 digits (0–9)
Default Value	Empty string
Web User Interface Reference	Password for Unlocking

PAUSE_INPUT_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable or disable pause input.
Value Range	• Y: Enable • N: Disable
Default Value	N

NUM_PLAN_PICKUP_DIRECT

Value Format	STRING
Description	Specifies the feature number assigned to a BLF for performing call pickup.
Value Range	0–4 digits (0–9, *, #)
Default Value	Empty string
Web User Interface Reference	Directed Call Pickup

NUM_PLAN_BARGE_IN

Value Format	STRING
Description	Specifies the feature number for performing barging in.
Value Range	0–4 digits (0–9, *, #)
Default Value	Empty string
Web User Interface Reference	Barge in

DISP_NUM_PHONEBOOK_ENABLE (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	BOOLEAN
Description	Specifies whether the number of remaining items is displayed when a new item is registered in phonebook.
Value Range	• Y: Enable • N: Disable
Default Value	Y

WALLPAPER_WAIT_TIME

Value Format	INTEGER
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Description	Specifies the time, in seconds, to wait for the screen saver to display.
Value Range	• 0 (Do not display the screen saver) • 10 • 30 • 60 • 180 • 300
Default Value	0
Web User Interface Reference	Wait Time

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	• Y: Use 'FROM' header • N: Use 'PAI' header
Default Value	N

IDLE_DISPLAY_TYPE

Value Format	INTEGER
Description	Specifies what is shown on the display in standby mode.
Value Range	• 0: Off • 1: Phone Number • 2: Phone Number and Name • 3: Name Note "Name" is the display name for the line.
Default Value	1

CNIP_CALL_PAI_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable using the 'PAI' header in CNIP (Calling Number Identification Presentation) on the display when calling.
Value Range	• Y: Enable • N: Disable
Default Value	Y

SOFT_KEY_LABELx (For KX-HDV130/KX-HDV230)

Value Format	STRING
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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 KX-HDV130/KX-HDV230)

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

BLF_DISPLAY_OFF_OUTGOING

Value Format	BOOLEAN
Description	Specifies whether to display the phone numbers of BLF keys or PAI after dialing.
Value Range	- Y: Do not display - N: Display the phone numbers
Default Value	N

SPLIT_HOLD_TRNS_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable the Call Split feature by pressing the HOLD key while a call is either on transfer hold or conference hold.
Value Range	- Y: Enable the Call Split feature by using the HOLD key - N: Disable
Default Value	N

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

PB_QUICK_SEARCH_ENABLE (For KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	BOOLEAN
Description	Specifies whether to enable using the Quick-search operation when searching for an item in the phonebook.
Value Range	• Y: Enable • N: Disable
Default Value	N

CALLPARK_METHOD

Value Format	INTEGER
Description	Specifies the method for the "Call Park" function.
Value Range	• 1: Info message type • 2: Refer type
Default Value	2

CALL_PARK_PROG_KEY_MODE

Value Format	INTEGER
Description	Specifies the Call Park operation when it is assigned to a function key.
Value Range	• 0: Numbering plan • 1: Specified park area with "CALLPARK_METHOD".
Default Value	0

SUBS_CALLPARK_AREA_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to send "SUBSCRIBE" for each call park area.
Value Range	• Y: Enable sending "SUBSCRIBE" for each call park area. • N: Disable
Default Value	N

RINGER_VOLUME_LEVEL

Value Format	INTEGER
Description	Specifies the value of the ringer volume.
Value Range	0-8
Default Value	5

RINGER_VOL_OPERATION_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable ringer volume adjustment.
Value Range	• Y: Enable ringer volume adjustment • N: Disable
Default Value	Y

BLF_AUTO_SETTING_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to assign "BLF" to flexible keys and DSS keys automatically when there is no function already assigned.
Value Range	• Y: Assign "BLF" • N: Do not assign "BLF"
Default Value	N

ECO_MODE_PASS_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to require password authentication when setting "ECO Mode" from the phone interface. Note • This password is same as the administrator password for logging in to Web User Interface Programming.
Value Range	• Y: Require password authentication • N: Do not require password authentication
Default Value	N

EMBEDDED_WEB_PASS_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to require password authentication when setting "Embedded Web" from the phone interface. Note • This password is same as the administrator password for logging in to Web User Interface Programming.
Value Range	• Y: Require password authentication • N: Do not require password authentication
Default Value	N

NETWORK_SETTINGS_PASS_ENABLE

Value Format	BOOLEAN
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Description	Specifies whether to require password authentication when setting "Network Settings" from the phone interface. Note • This password is same as the administrator password for logging in to Web User Interface Programming.
Value Range	• Y: Require password authentication • N: Do not require password authentication
Default Value	N

AUTHENTICATION_PASS_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to require password authentication when setting "Authentication" from the phone interface. Note • This password is same as the administrator password for logging in to Web User Interface Programming.
Value Range	• 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	• Y: Enable • N: Disable
Default Value	N

CONF_RETRIEVE_HOLDKEY_ENABLE (For KX-HDV230)

Value Format	BOOLEAN
Description	Specifies the operation when the HOLD key is pressed during a three-party conference.

Value Range	• Y: Puts the other parties on hold, and then displays the list of parties that are on hold. • N: Puts the other parties on hold, but does not display the list of parties that are on hold. Note • If "Y" is specified, you can select a party to talk to. • If "Y" is specified, pressing the HOLD key during a two-party conversation while there are other parties on hold displays a list of the parties that are on hold. • If "Y" is specified, pressing the HOLD key on the standby screen while conferences and/or conversations are on hold resumes the most recent conference or conversation.
Default Value	N

DISPLAY_BARGE_IN_ENABLE (For KX-HDV130/KX-HDV230)

Value Format	BOOLEAN
Description	Specifies the display for on-line status when a shared line is in use.
Value Range	• Y: "In Use/→)" is displayed • N: "In Use" is displayed Note • "Barge" is displayed instead of →)" for models in the USA.
Default Value	N

DISPLAY_CHECKSYNC_ENABLE (For KX-HDV130/KX-HDV230)

Value Format	BOOLEAN
Description	Specifies whether the provisioning status is displayed on the LCD when provisioning is triggered via a resync event.
	Note • For information about the resync event, refer to "Header Value for Resync Event" or "CFG_RESYNC_FROM_SIP".
Value Range	• Y: Displayed • N: Not displayed
Default Value	N

CW_DISPLAY_CONTINUATION_ENABLE (For KX-HDV130/KX-HDV230)

Value Format	BOOLEAN
Description	Specifies the display on the LCD during call waiting.
Value Range	• Y: Show the call waiting screen continuously • N: Switch between the call waiting screen and conversation screen

Default Value	N
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BLF_OPERATION_MODE (For KX-HDV130/KX-HDV230)

Value Format	INTEGER
Description	Specifies the operation when a BLF key whose status is "Unavailable" is pressed.
Value Range	• 0: Makes a call with barge-in. • 1: Makes a call with the BLF number (extension number). • 2: Displays a screen for selecting how to make a call. You can select whether to make a call with barge-in or the BLF number.
Default Value	0

SWITCH_DISPLAY_ENABLE (For KX-HDV130/KX-HDV230)

Value Format	BOOLEAN
Description	Specifies the operation when [Up] or [Down] on the Navigator Key is pressed.
Value Range	• x: Switch to the display of the call if there is a current call, incoming calls, held calls, etc. • N: When receiving an incoming call or a callback, adjusts the ringer volume. During a call or while receiving call waiting, adjusts the receiver, speaker, or headset volume. Note If "x" is specified, refer to the following. • When [Up] is pressed, display the next call newer than the current call. • When [Down] is pressed, display the next call older than the current call. • The soft keys display the available operations for the displayed call. • The following information for the number of calls is displayed in the upper right. Call number, in order of occurrence / Total number of calls
Default Value	N

5.3.31 Flexible Key Settings

FLEX_BUTTON_FACILITY_ACTx

Value Format	STRING
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Description	x=1–2 – KX-HDV130 x=1–24 – KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430 Specifies a particular Facility Action for the flexible Key. Nofacility action will be taken for the button if the string is empty or invalid. Note If this parameter is specified, "FLEX_BUTTON_QUICK_DIALx" should be an empty string.
Value Range	KX-HDV130 X_PANASONIC_IPTEL_LINE, X_PANASONIC_IPTEL_ONETOUCH, X_PANASONIC_IPTEL_ACD, X_PANASONIC_IPTEL_WRAPUP, X_PANASONIC_IPTEL_BLF, X_PANASONIC_IPTEL_FORWARD, X_PANASONIC_IPTEL_CALLPARK, X_PANASONIC_IPTEL_APPLICATION, X_PANASONIC_IPTEL_GROUPPICKUP KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430 X_PANASONIC_IPTEL_LINE, X_PANASONIC_IPTEL_ONETOUCH, X_PANASONIC_IPTEL_ACD, X_PANASONIC_IPTEL_WRAPUP, X_PANASONIC_IPTEL_BLF, X_PANASONIC_IPTEL_LINESTATUS, X_PANASONIC_IPTEL_FORWARD, X_PANASONIC_IPTEL_PHONEBOOK, X_PANASONIC_IPTEL_CALLLOG, X_PANASONIC_IPTEL_PARARING, X_PANASONIC_IPTEL_HOTELING, X_PANASONIC_IPTEL_TRANSFER, X_PANASONIC_IPTEL_BLINDTRANSFER, X_PANASONIC_IPTEL_CONFERENCE, X_PANASONIC_IPTEL_DIRECTPICKUP, X_PANASONIC_IPTEL_CALLPARK, X_PANASONIC_IPTEL_PARKRETRIEVE, X_PANASONIC_IPTEL_APPLICATION, X_PANASONIC_IPTEL_GROUPPICKUP, X_PANASONIC_IPTEL_PRESENCE, X_PANASONIC_IPTEL_MYPHONE, X_PANASONIC_IPTEL_NETWORKCAMERA (For KX-HDV430)
Default Value	Empty string
Web User Interface Reference	Type

FLEX_BUTTON_FACILITY_ARGx

Value Format	STRING
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Description	KX-HDV130 : x=1–2 KX-HDV230/KX-HDV330/ KX-HDV340/KX-HDV430 : x=1–24 Specifies an optional argument associated with the specified Facility Action for the flexible Key.
Value Range	Max. 32 characters (For KX-HDV130) Max. 128 characters (For KX-HDV230/KX-HDV330/KX-HDV340/ KX-HDV430)
Default Value	Empty string
Web User Interface Reference	Parameter

FLEX_BUTTON_LABELx (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)

Value Format	STRING
Description	x=1–24 Specifies the name of flexible key to be displayed on the screen.
Value Range	Max. 20 characters Note You can use Unicode characters for this setting.
Default Value	Empty string
Web User Interface Reference	Label Name

FLEX_BUTTON_QUICK_DIALx

Value Format	STRING
Description	KX-HDV130 : x=1–2 KX-HDV230/KX-HDV330/KX-HDV340/ KX-HDV430 : x=1–24 Specifies a quick dial destination number to be used for the flexible Key.
Value Range	Max. 32 digits (0–9, *, #)
Default Value	Empty string

LONG_PRESS_KEY_SETTING_ENABLE (For KX-HDV230/KX-HDV330/ KX-HDV340/KX-HDV430)

Value Format	BOOLEAN
Description	Selects whether to enable or disable the flexible key or DSS key with a long press. Note For KX-HDV330/KX-HDV340/KX-HDV430, this function is valid only for DSS key.

Value Range	- Y: Enable - N: Disable
Default Value	Y

5.3.32 DSS Key Settings (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)

DSS_BUTTON_FACILITY_ACTx

Value Format	STRING
Description	x=1–200 Specifies a particular Facility Action for the flexible key. No facility action will be taken for the button if the string is empty or invalid. Note If this parameter is specified, "DSS_BUTTON_QUICK_DIALx" should be an empty string.
Value Range	X_PANASONIC_IPTEL_LINE, X_PANASONIC_IPTEL_ONETOUCH, X_PANASONIC_IPTEL_ACD, X_PANASONIC_IPTEL_WRAPUP, X_PANASONIC_IPTEL_BLF, X_PANASONIC_IPTEL_LINESTATUS, X_PANASONIC_IPTEL_FORWARD, X_PANASONIC_IPTEL_PHONEBOOK, X_PANASONIC_IPTEL_CALLLOG, X_PANASONIC_IPTEL_PARARING, X_PANASONIC_IPTEL_HOTELING, X_PANASONIC_IPTEL_TRANSFER, X_PANASONIC_IPTEL_BLINDTRANSFER, X_PANASONIC_IPTEL_CONFERENCE, X_PANASONIC_IPTEL_DIRECTPICKUP, X_PANASONIC_IPTEL_CALLPARK, X_PANASONIC_IPTEL_PARKRETRIEVE, X_PANASONIC_IPTEL_APPLICATION, X_PANASONIC_IPTEL_GROUPPICKUP, X_PANASONIC_IPTEL_PRESENCE, X_PANASONIC_IPTEL_MYPHONE, X_PANASONIC_IPTEL_NETWORKCAMERA (For KX-HDV430)
Default Value	Empty string
Web User Interface Reference	Type

DSS_BUTTON_FACILITY_ARGx

Value Format	STRING
Description	x=1–200 Specifies an optional argument associated with the specified Facility Action for the flexible key.
Value Range	Max. 128 characters

Default Value	Empty string
Web User Interface Reference	Parameter

DSS_BUTTON_LABELx

Value Format	STRING
Description	x=1–200 Specifies the name of flexible key to be displayed on the screen.
Value Range	Max. 20 characters Note You can use Unicode characters for this setting.
Default Value	Empty string
Web User Interface Reference	Label Name

DSS_BUTTON_QUICK_DIALx

Value Format	STRING
Description	x=1–200 Specifies a quick dial destination number to be used for the flexible key.
Value Range	Max. 32 digits (0–9, *, #)
Default Value	Empty string

5.3.33 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	• 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

CONFIRMATION_TONE5_FRQ

Value Format	Comma-separated Integer
Description	Specifies the confirmation tone 5 frequencies, in hertz, of confirmation tone 5 using Max. 2 whole numbers separated by a comma.
Value Range	200–2000 (Hz) (0: no tone)
Default Value	1000

CONFIRMATION_TONE5_GAIN

Value Format	INTEGER
Description	Specifies the gain, in decibels, of confirmation tone 5.
Value Range	-24–24 (dB)
Default Value	0

REORDER_TONE_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable reorder tone.
Value Range	• 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.
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 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 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 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 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)
Default Value	350,440
Web User Interface Reference	Tone Frequencies

DIAL_TONE4_GAIN

Value Format	INTEGER
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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 – 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. Note 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) Note 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
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
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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 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 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)
Default Value	0

REORDER_TONE_RPT

Value Format	INTEGER
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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 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 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
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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 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 Avoid setting 1–50 for any of the values.
Default Value	60,2000,3940
Web User Interface Reference	Tone Timings

HOLD_ALARM_FRQ

Value Format	Comma-separated Integer
Description	Specifies the dual-tone frequencies, in hertz, of the hold alarm using 2 whole numbers separated by a comma.
Value Range	0, 200–2000 (Hz) (0: No tone)
Default Value	425

HOLD_ALARM_GAIN

Value Format	INTEGER
Description	Specifies the gain, in decibels, of the hold alarm.
Value Range	-24–24 (dB)
Default Value	0

CW_TONE1_FRQ

Value Format	Comma-separated Integer
Description	Specifies the dual-tone frequencies, in hertz, of call waiting tone 1 using 2 whole numbers separated by a comma.
Value Range	0, 200–2000 (Hz) (0: No tone)
Default Value	425

CW_TONE1_GAIN

Value Format	INTEGER
Description	Specifies the gain, in decibels, of call waiting tone 1.
Value Range	-24–24 (dB)

Default Value	0
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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) Note • 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) Note • Avoid setting 1–50 for any of the values.
Default Value	800,400,800,4000

BELL_CORE_PATTERN3_TIMING

Value Format	Comma-separated Integer
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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) Note • 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 • 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 • Avoid setting 1–50 for any of the values.
Default Value	500

KEY_PAD_TONE

Value Format	INTEGER
Description	Specifies whether a tone is heard in response to key presses.
Value Range	• 0: Off • 1: On
Default Value	1

5.3.34 Call Control Settings

DEFAULT_LINE_SELECT

Value Format	INTEGER
Description	Specifies the line used to make an outgoing call when no line is specified in the dialing operation.
Value Range	• 1: Line 1 • 2: Line 2 • 3: Line 3 • 4: Line 4 • 5: Line 5 • 6: Line 6 • 7: Line 7 • 8: Line 8 • 9: Line 9 • 10: Line 10 • 11: Line 11 • 12: Line 12 • 13: Line 13 • 14: Line 14 • 15: Line 15 • 16: Line 16 Note KX-HDV130 Line 1-2 KX-HDV230 Line 1-6 KX-HDV330 Line 1-12 KX-HDV340 Line 1-4 KX-HDV430 Line 1-16
Default Value	1
Web User Interface Reference	Default Line for Outgoing

ANONYMOUS_CALL_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to make calls without transmitting the phone number to the called party.
Value Range	• Y: Enable anonymous call • N: Disable
Default Value	N

Web User Interface Reference	Enable Anonymous Call
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BLOCK_ANONYMOUS_CALL_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 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	• Y: Enable anonymous call block • N: Disable
Default Value	N
Web User Interface Reference	Enable Block Anonymous Call

HOTLINE_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable or disable the Hot line feature.
Value Range	• Y: Enable • N: Disable
Default Value	N
Web User Interface Reference	Enable

HOTLINE_NUMBER

Value Format	STRING
Description	Specifies the Hot line number.
Value Range	Max. 32 characters
Default Value	Empty string
Web User Interface Reference	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 end with "_n", see 5.2.1 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 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 Your phone system must support voice mail.
Value Range	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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	STRING
Description	Specifies the phone number used to access the voice mail server. Note 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 end with "_n", see 5.2.1 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

DISPLAY_VM_WITH_NUMBER

Value Format	BOOLEAN
Description	Specifies whether to enable displaying the number of unread voice messages.

Value Range	• Y: Enable • N: Disable
Default Value	Y

DIAL_PLAN_n

For details about parameter names end with "_n", see 5.2.1 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 6.2 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 end with "_n", see 5.2.1 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".
Value Range	• Y: Enable dial plan filtering • N: Disable dial plan filtering Note • 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

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	• 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	• y: Enable Dial Plan • n: Disable
Default Value	y

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 • 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 (For KX-HDV130/KX-HDV230)

Value Format	INTEGER
Description	Specifies the Soft Key A (Left) during IDLE state.
Value Range	• 1: Phonebook • 2: Menu • 3: Outgoing Call Log • 4: Incoming Call Log • 5: Redial • 6: Page (Used when performing Multicast Paging) Note 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. – Page: MPAGE_FUNCKEY_ENABLE
Default Value	1
Web User Interface Reference	Soft Key A (Left)

IDLE_SOFT_KEY_B (For KX-HDV130/KX-HDV230)

Value Format	INTEGER
Description	Specifies the Soft Key B (Center) during IDLE state.
Value Range	• 1: Phonebook • 2: Menu • 3: Outgoing Call Log • 4: Incoming Call Log • 5: Redial • 6: Page (Used when performing Multicast Paging) Note 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. – Page: MPAGE_FUNCKEY_ENABLE
Default Value	2
Web User Interface Reference	Soft Key B (Center)

IDLE_SOFT_KEY_C (For KX-HDV130/KX-HDV230)

Value Format	INTEGER
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Description	Specifies the Soft Key C (Right) during IDLE state.
Value Range	• 1: Phonebook • 2: Menu • 3: Outgoing Call Log • 4: Incoming Call Log • 5: Redial • 6: Page (Used when performing Multicast Paging) Note 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. – Page: MPAGE_FUNCKEY_ENABLE
Default Value	3
Web User Interface Reference	Soft Key C (Right)

ADMIN_ABILITY_ENABLE

Value Format	BOOLEAN
Description	Specifies admin rights.
	Note If you attempt to configure System Settings without enabling admin rights, an error will occur and configuration will not be possible.
Value Range	• ♂: Admin • ♀: Non Admin
Default Value	♂
Web User Interface Reference	Enable Admin Ability

EMERGENCY_CALLx

Parameter Name Example	EMERGENCY_CALL1, EMERGENCY_CALL2, ..., EMERGENCY_CALL5
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

Parameter Name Example	CALL_REJECTION1, CALL_REJECTION2, ..., CALL_REJECTION30
Value Format	STRING
Description	Specifies the rejected number per line. (Up to 30 rejected numbers)

Value Range	Max. 32 characters (except &, ", ', : , , , <, >)
Default Value	Empty string
Web User Interface Reference	1–30

CLICKTO_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable or disable Click to Dial/Answer/Hold functions.
Value Range	• Y: Enable • N: Disable
Default Value	N
Web User Interface Reference	Enable Click to Call

SIGNALING_AUTO_ANS_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable paging mode with "Click to Dial".
Value Range	• Y: Enable • N: Disable
Default Value	Y

CALLPARK_NOTIFICATION_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to respond to call park notifications from the server.
Value Range	• Y: Enable • N: Disable
Default Value	N
Web User Interface Reference	Enable Call Park Notification

SHARED_CALL_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 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 • Availability depends on your phone system.

Value Range	• Y: Enable shared call • N: Disable shared call Note • 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	• Y: Stop seizing the line • N: Seize the line
Default Value	N

FWD_DND_SYNCHRO_ENABLE_n

For details about parameter names end with "_n", see 5.2.1 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 • 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	• 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 (Enable Key Synchronisation)

FWD_SYNCHRO_FORCE_DISABLE_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to synchronize the Call Forward settings in "FWD_DND_SYNCHRO_ENABLE_n".

Value Range	• Y: Do not synchronize • N: Synchronize
Default Value	N

BS_EXECUTIVE_SETTING_ENABLE_n (For KX-HDV330/KX-HDV340/KX-HDV430)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable or disable the Executive Call Filtering feature of the selected line.
Value Range	• Y: Enable • N: Disable
Default Value	N
Web User Interface Reference	Enable Executive Setting (For KX-HDV330/KX-HDV340/KX-HDV430)

BS_ASSISTANT_SETTING_ENABLE_n (For KX-HDV330/KX-HDV340/KX-HDV430)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether to enable or disable the Executive Call Filtering feature and Executive-Assistant Divert feature of the selected line.
Value Range	• Y : Enable • N : Disable
Default Value	N
Web User Interface Reference	Enable Assistant Setting (For KX-HDV330/KX-HDV340/KX-HDV430)

MOH_SERVER_URI_n

For details about parameter names end with "_n", see 5.2.1 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	• Y: Enable • N: Disable

Default Value	Y
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FWD_DND_SYNCHRO_MODE

Value Format	INTEGER
Description	Specifies the mode of FWD/DND synchronizing with server.
Value Range	• 1: as feature event • 2: Panasonic original • 3: Entel
Default Value	1

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.
Value Range	• Y: Enable • N: Disable
Default Value	Y

HOLD_AND_CALL_ENABLE

Value Format	BOOLEAN
Description	Specifies whether making new call after holding the call or not.
Value Range	• 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	• 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 end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	BOOLEAN
Description	Specifies whether automatic call waiting is enabled.
Value Range	• 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	• 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 • 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

CONF_SERVER_HOLD_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to hold the call when connecting an N-party conference.

Value Range	• Y: Hold the call • N: Do not hold the call
Default Value	N

RESOURCELIST_URI_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
Value Format	STRING
Description	Specifies the URI for the resource list, which consists of "sip:", a user part, the "@" symbol, and a host part.
Value Range	Max. 256 characters
Default Value	Empty string
Web User Interface Reference	Resource List URI

TALKING_SOFT_KEY_A (For KX-HDV130/KX-HDV230)

Value Format	INTEGER
Description	Specifies the display icon of soft key A during a call.
Value Range	• 0: Original • 1: Line • 2: Menu • 3: Blind (Used when performing Blind Transfer) • 4: Flash/Recall • 5: Incoming Log • 6: Outgoing Log • 7: Phonebook • 8: Park (Used when performing Call Park) • 9: Pause • 10: Private Hold Note 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. – Blind: BLIND_TRANSFER_ENABLE – Park: CALLPARK_KEY_ENABLE – Pause: PAUSE_INPUT_ENABLE – Private Hold: PRIVATE_HOLD_ENABLE
Default Value	0

TALKING_SOFT_KEY_B (For KX-HDV130/KX-HDV230)

Value Format	INTEGER
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Description	Specifies the display icon of soft key B during a call.
Value Range	• 0: Original • 1: Line • 2: Menu • 3: Blind (Used when performing Blind Transfer) • 4: Flash/Recall • 5: Incoming Log • 6: Outgoing Log • 7: Phonebook • 8: Park (Used when performing Call Park) • 9: Pause • 10: Private Hold Note 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. – Blind: BLIND_TRANSFER_ENABLE – Park: CALLPARK_KEY_ENABLE – Pause: PAUSE_INPUT_ENABLE – Private Hold: PRIVATE_HOLD_ENABLE
Default Value	0

TALKING_SOFT_KEY_C (For KX-HDV130/KX-HDV230)

Value Format	INTEGER
Description	Specifies the display icon of soft key C during a call.

Value Range	• 0: Original • 1: Line • 2: Menu • 3: Blind (Used when performing Blind Transfer) • 4: Flash/Recall • 5: Incoming Log • 6: Outgoing Log • 7: Phonebook • 8: Park (Used when performing Call Park) • 9: Pause • 10: Private Hold Note 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. – Blind: BLIND_TRANSFER_ENABLE – Park: CALLPARK_KEY_ENABLE – Pause: PAUSE_INPUT_ENABLE – Private Hold: PRIVATE_HOLD_ENABLE
Default Value	0

AUTO_ANS_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to turn on the "Auto Answer" feature.
Value Range	• Y: On • N: Off
Default Value	N

AUTO_ANS_OPER_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable users to turn "Auto Answer" on and off from their phones.
Value Range	• Y: Enable • N: Disable
Default Value	Y

AUTO_ANS_DEVICE

Value Format	INTEGER
---------------------	---------

Description	Specifies which types of devices can be used to respond using "Auto Answer".
Value Range	0-1 – 0: Speaker Phone – 1: Headset
Default Value	0

AUTO_ANS_DELAY

Value Format	INTEGER
Description	Specifies the delay time before "Auto Answer" answers a call.
Value Range	0-20 (sec)
Default Value	6

AUTO_ANS_TYPE (For KX-HDV430)

Value Format	INTEGER
Description	Specifies which type of calls can be answered by "Auto Answer".
Value Range	0-1 – 0: Voice Call – 1: Voice and Video
Default Value	0

RETRIVE_TRANS_HOLD_OPER_CHANGE

Value Format	BOOLEAN
Description	Specifies the action for retrieving transfer-hold calls by pressing a Line key. Note • The action for retrieving conference call on hold by pressing a Line key in the conference call sequence also follows this setting.
Value Range	• 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	• Y: Enable • N: Disable

5.3.35 Video Communication Settings (For KX-HDV430)

Default Value	N
---------------	---

AUTO_ANSWER_DEVICE_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable the "Auto Ans Device" setting.
Value Range	• Y: Enable Follows the "Auto Ans Device" setting. • N: Disable Follows the setting at the last call. (Speaker Phone or Headset) Also, the "Auto Ans Device" setting is not displayed in the phone menu.
Default Value	Y

5.3.35 Video Communication Settings (For KX-HDV430)

DEFAULT_CALL_MODE

Value Format	INTEGER
Description	Specifies the default call type when you make a call by going off hook, etc.
Value Range	• 0: Voice • 1: Video
Default Value	0
Web User Interface Reference	Default Call Mode

VIDEO_SCREEN_MODE

Value Format	INTEGER
Description	Specifies the mode for the video screen.
Value Range	• 0: Normal • 1: Split
Default Value	0
Web User Interface Reference	Screen Mode

VIDEO_SEND_IMAGE_ENABLE

Value Format	BOOLEAN
Description	Specifies whether the video is automatically sent when you start a video call.
Value Range	• Y: Enable • N: Disable
Default Value	Y
Web User Interface Reference	Send Image at Start

VIDEO_BIT_RATE

Value Format	INTEGER
Description	Specifies the bit rate for the video when you make a video call.
Value Range	• 0: 128 kbps • 1: 256 kbps • 2: 384 kbps • 3: 512 kbps • 4: 768 kbps • 5: 1024 kbps • 6: 2048 kbps
Default Value	6
Web User Interface Reference	Bit Rate

VIDEO_BIT_RATE_USE

Value Format	INTEGER
Description	Selects whether the specified bit rate is treated as the maximum bit rate or a fixed bit rate.
Value Range	• 0: Maximum • 1: Fixed
Default Value	0
Web User Interface Reference	Bit Rate Use

VIDEO_FRAME_RATE

Value Format	INTEGER
Description	Specifies the frame rate for the video when you make a video call.
Value Range	• 15: 15 fps • 30: 30 fps
Default Value	30
Web User Interface Reference	Frame Rate

VIDEO_IMAGE_SIZE

Value Format	INTEGER
Description	Specifies the size for video images when you make a video call.
Value Range	• 0: QCIF • 1: QVGA • 2: CIF • 3: HVGAW • 4: VGA

5.3.36 Network Camera Settings (For KX-HDV430)

Default Value	3
Web User Interface Reference	Image Size

H264_PAYLOAD

Value Format	INTEGER
Description	Specifies the payload size for H.264.
Value Range	96–125
Default Value	102

5.3.36 Network Camera Settings (For KX-HDV430)

NWCAMERA_DISPLAY_NAME_x

Parameter Name Example	NWCAMERA_DISPLAY_NAME1, NWCAMERA_DISPLAY_NAME2, ..., NWCAMERA_DISPLAY_NAME16
Value Format	STRING
Description	x=1–16 Specifies the name of the Network Camera to be displayed in the Network Camera viewer.
Value Range	Max. 20 characters
Default Value	Empty string

NWCAMERA_ADDR_x

Parameter Name Example	NWCAMERA_ADDR1, NWCAMERA_ADDR2, ..., NWCAMERA_ADDR16
Value Format	STRING
Description	x=1–16 Specifies the address of the Network Camera.
Value Range	Max. 256 characters
Default Value	Empty string

NWCAMERA_PORT_x

Parameter Name Example	NWCAMERA_PORT1, NWCAMERA_PORT2, ..., NWCAMERA_PORT16
Value Format	INTEGER
Description	x=1–16 Specifies the port of the Network Camera.
Value Range	1–65535
Default Value	80

NWCAMERA_USER_IDx

Parameter Name Example	NWCAMERA_USER_ID1, NWCAMERA_USER_ID2, ..., NWCAMERA_USER_ID16
Value Format	STRING
Description	x=1–16 Specifies the user ID to connect to the Network Camera.
Value Range	Max. 32 characters
Default Value	Empty string

NWCAMERA_PASSx

Parameter Name Example	NWCAMERA_PASS1, NWCAMERA_PASS2, ..., NWCAMERA_PASS16
Value Format	STRING
Description	x=1–16 Specifies the password to connect to the Network Camera.
Value Range	Max. 32 characters
Default Value	Empty string

NWCAMERA_PAGING_PHONE_NAMEx

Parameter Name Example	NWCAMERA_PAGING_PHONE_NAME1, NWCAMERA_PAGING_PHONE_NAME2, ..., NWCAMERA_PAGING_PHONE_NAME16
Value Format	STRING
Description	x=1–16 Specifies the name of the phone to use for Network Camera paging.
Value Range	Max. 24 characters
Default Value	Empty string

NWCAMERA_PAGING_PHONE_NUMBERx

Parameter Name Example	NWCAMERA_PAGING_PHONE_NUMBER1, NWCAMERA_PAGING_PHONE_NUMBER2, ..., NWCAMERA_PAGING_PHONE_NUMBER16
Value Format	STRING
Description	x=1–16 Specifies the phone number to use for Network Camera paging.
Value Range	Max. 32 characters
Default Value	Empty string

NWCAMERA_LINK_PHONEm_NAMEx

Parameter Name Example	NWCAMERA_LINK_PHONE1_NAME1, NWCAMERA_LINK_PHONE1_NAME2, ..., NWCAMERA_LINK_PHONE5_NAME16
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5.3.36 Network Camera Settings (For KX-HDV430)

Value Format	STRING
Description	m=1–5, x=1–16 Specifies the phone name to use for Network Camera phone number linkage.
Value Range	Max. 24 characters
Default Value	Empty string

NWCAMERA_LINK_PHONEm_NUMBERx

Parameter Name Example	NWCAMERA_LINK_PHONE1_NUMBER1, NWCAMERA_LINK_PHONE1_NUMBER2, ..., NWCAMERA_LINK_PHONE5_NUMBER16
Value Format	STRING
Description	m=1–5, x=1–16 Specifies the phone number to use for Network Camera phone number linkage.
Value Range	Max. 32 characters
Default Value	Empty string

NWCAMERA_STREAMx

Parameter Name Example	NWCAMERA_STREAM1, NWCAMERA_STREAM2, ..., NWCAMERA_STREAM16
Value Format	INTEGER
Description	x=1–16 Specifies the stream of the Network Camera image.
Value Range	• 1: Stream 1 • 2: Stream 2
Default Value	1

NWCAMERA_ALARM_NOTIFICATION

Value Format	INTEGER
Description	Specifies the mode for Network Camera alarm notifications.
Value Range	• 0: Off • 1: Pop-up
Default Value	0

NWCAMERA_ALARM_DISARM_TIME

Value Format	INTEGER
Description	Specifies the time, in seconds, for the alarm interval.
Value Range	2–10 (s)
Default Value	2

NWCAMERA_ALARM_PORT

Value Format	INTEGER
Description	Specifies the local port number for Network Camera alarms.
Value Range	1024–65535
Default Value	1818

NWCAMERA_AUTO_CLOSE_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to disconnect the network camera when the call is ended.
Value Range	• Y: Disconnect • N: Do not disconnect
Default Value	N

NWCAMERA_OPEN_RECEIVE_CALL

Value Format	BOOLEAN
Description	Specifies whether to connect the network camera when the call associated with network camera is incoming.
Value Range	• Y: Connect • N: Do not connect
Default Value	N

5.3.37 Communication Camera Settings (For KX-HDV430)**COMM_CAMERA_NUMBERx**

Parameter Name Example	COMM_CAMERA_NUMBER1, COMM_CAMERA_NUMBER2, ..., COMM_CAMERA_NUMBER16
Value Format	STRING
Description	x=1–16 Specifies the phone number of each Communication Camera.
Value Range	Max. 32 characters
Default Value	Empty string
Web User Interface Reference	Phone Number

COMM_CAMERA_NAMEx

Parameter Name Example	COMM_CAMERA_NAME1, COMM_CAMERA_NAME2, ..., COMM_CAMERA_NAME16
Value Format	STRING
Description	x=1–16 Specifies the name of each Communication Camera.

5.3.37 Communication Camera Settings (For KX-HDV430)

Value Range	Max. 24 characters
Default Value	Empty string
Web User Interface Reference	Name

COMM_CAMERA_RINGTONE_SETTINGx

Parameter Name Example	COMM_CAMERA_RINGTONE_SETTING1, COMM_CAMERA_RINGTONE_SETTING2, ..., COMM_CAMERA_RINGTONE_SETTING16
Value Format	INTEGER
Description	x=1–16 Specifies the ringtone of each Communication Camera.
Value Range	1–32 (10: doorbell)
Default Value	10
Web User Interface Reference	Ringtone [1 - 32]

DTMF_CONTROL_UP_CAMERAx

Parameter Name Example	DTMF_CONTROL_UP_CAMERA1, DTMF_CONTROL_UP_CAMERA2, ..., DTMF_CONTROL_UP_CAMERA16
Value Format	STRING
Description	x=1–16 Specifies the DTMF value for tilting the camera up for each Communication Camera.
Value Range	Max. 8 digits (0–9, *, #)
Default Value	2

DTMF_CONTROL_DOWN_CAMERAx

Parameter Name Example	DTMF_CONTROL_DOWN_CAMERA1, DTMF_CONTROL_DOWN_CAMERA2, ..., DTMF_CONTROL_DOWN_CAMERA16
Value Format	STRING
Description	x=1–16 Specifies the DTMF value for tilting the camera down for each Communication Camera.
Value Range	Max. 8 digits (0–9, *, #)
Default Value	8

DTMF_CONTROL_LEFT_CAMERAx

Parameter Name Example	DTMF_CONTROL_LEFT_CAMERA1, DTMF_CONTROL_LEFT_CAMERA2, ..., DTMF_CONTROL_LEFT_CAMERA16
Value Format	STRING
Description	x=1–16 Specifies the DTMF value for panning the camera left for each Communication Camera.

Value Range	Max. 8 digits (0–9, *, #)
Default Value	4

DTMF_CONTROL_RIGHT_CAMERAx

Parameter Name Example	DTMF_CONTROL_RIGHT_CAMERA1, DTMF_CONTROL_RIGHT_CAMERA2, ..., DTMF_CONTROL_RIGHT_CAMERA16
Value Format	STRING
Description	x=1–16 Specifies the DTMF value for panning the camera right for each Communication Camera.
Value Range	Max. 8 digits (0–9, *, #)
Default Value	6

DTMF_CONTROL_OPEN_CAMERAx

Parameter Name Example	DTMF_CONTROL_OPEN_CAMERA1, DTMF_CONTROL_OPEN_CAMERA2, ..., DTMF_CONTROL_OPEN_CAMERA16
Value Format	STRING
Description	x=1–16 Specifies the DTMF value for opening the door near the camera for each Communication Camera.
Value Range	Max. 8 digits (0–9, *, #)
Default Value	5

DTMF_CONTROL_ZOOMUP_CAMERAx

Parameter Name Example	DTMF_CONTROL_ZOOMUP_CAMERA1, DTMF_CONTROL_ZOOMUP_CAMERA2, ..., DTMF_CONTROL_ZOOMUP_CAMERA16
Value Format	STRING
Description	x=1–16 Specifies the DTMF value for zooming in for each Communication Camera.
Value Range	Max. 8 digits (0–9, *, #)
Default Value	9

DTMF_CONTROL_ZOOMDOWN_CAMERAx

Parameter Name Example	DTMF_CONTROL_ZOOMDOWN_CAMERA1, DTMF_CONTROL_ZOOMDOWN_CAMERA2, ..., DTMF_CONTROL_ZOOMDOWN_CAMERA16
Value Format	STRING
Description	x=1–16 Specifies the DTMF value for zooming out for each Communication Camera.

5.3.38 Logging Settings

Value Range	Max. 8 digits (0–9, *, #)
Default Value	7

DTMF_CONTROL_VOICE_CAMERA x

Parameter Name Example	DTMF_CONTROL_VOICE_CAMERA1, DTMF_CONTROL_VOICE_CAMERA2, ..., DTMF_CONTROL_VOICE_CAMERA16
Value Format	STRING
Description	x=1–16 Specifies the DTMF value for talking with the camera for each Communication Camera.
Value Range	Max. 8 digits (0–9, *, #)
Default Value	*

5.3.38 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
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Description	Specifies whether to enable or disable exporting of the Application Log.
Value Range	• Y: Enable export to syslog • N: Disable
Default Value	N

SYSLOG_TRANSPORT

Value Format	INTEGER
Description	Specifies the protocol for syslog.
Value Range	• 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	• 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 private key is stored for authenticating the syslog client.
Value Range	Max. 384 characters

Default Value	Empty string
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5.3.39 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
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
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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 6

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).

6.1 Phonebook Import and Export

This section explains how to import and export phonebook data. Phonebook data of the unit includes names and phone numbers.

Phonebook data on the unit can be exported, edited with editor tools, and imported again. In addition, phonebook data created with other software can be imported into the unit.

You can use the phonebook import and export functions as follows.

- A. Phonebook data
- B. Microsoft Excel
- C. Microsoft Outlook

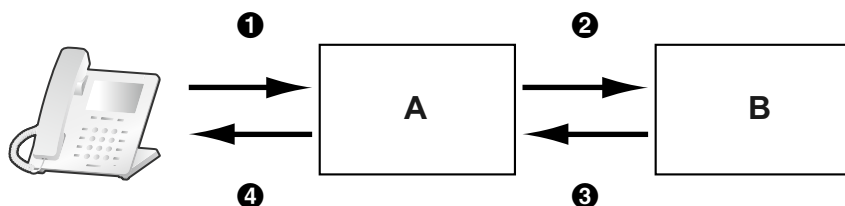
Note

It takes approximately 7 minutes to import a phonebook that contains 500 entries.

Editing Phonebook Data on a PC

The phonebook data stored on the unit can be edited using a program such as Microsoft Excel® spreadsheet software. For details about the operation, see **6.1.2 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 unit.

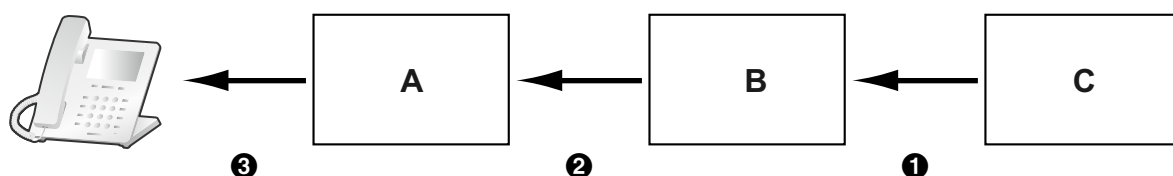


Importing Address Book Data from a PC

You can import address book data stored in programs, such as Microsoft Outlook® messaging and collaboration client, into the unit.

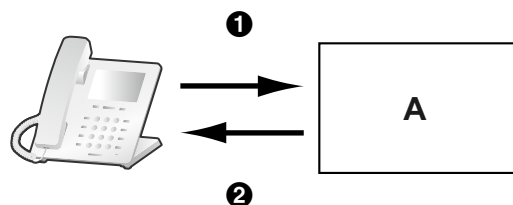
First, export address book data from the e-mail software to a program such as Microsoft Excel, edit it as necessary, and then import the exported data into the unit.

For details about the operation, see **6.1.3 Exporting Data from Microsoft Outlook**.



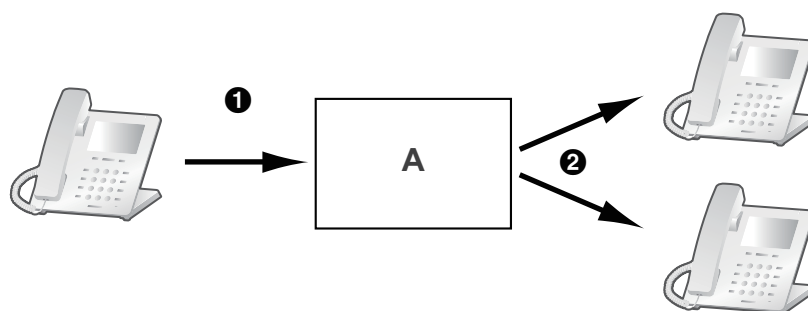
Backing up Phonebook Data

You can export the phonebook data from the unit to a PC and keep the file as a backup in case of data loss or for use when exchanging the unit.

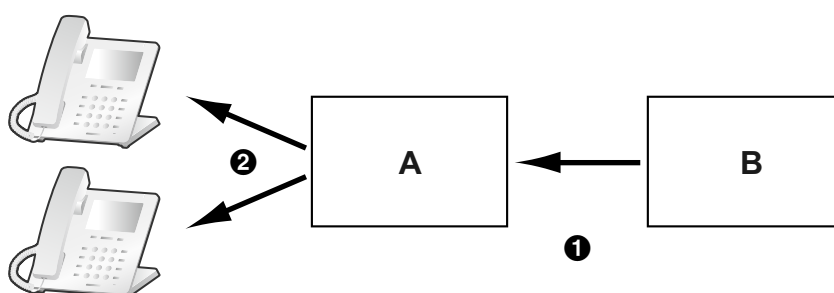


Importing the Same Phonebook Data to other Units

You can export the phonebook data created on a unit to a PC, and then import it into other units.



You can also import phonebook data created on a PC to other units.



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 unit has 9 fields. An entry in the phonebook data is represented in text as "record ID <TAB> name <TAB> reserved <TAB> phone number <TAB> phone number <TAB> phone number <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 MacDowel				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

6.1.1 Import/Export Operation

The following procedures explain how to import phonebook data to units, and how to export phonebook data from units to a PC through the Web user interface.

For details about the settings, see **4.6.7 Import Phonebook** or **4.6.8 Export Phonebook**.

To import phonebook data

1. Click the **[Telephone]** tab, and then click **[Import Phonebook]**.
2. 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.
3. Click **[Import]**.

To export the phonebook data

1. Click the **[Telephone]** tab, and then click **[Export Phonebook]**.
2. Click **[Export]**.
3. 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.

4. Click **Save** on **File Download** window.
5. 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.
6. Click **Close**.
7. 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 unit is in standby mode.
- The import source or unit 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 unit are not assigned record IDs. Therefore, it is recommended to export phonebook data from the unit, assign record IDs manually and then re-import them. Doing so can help manage phonebook data.
- The phonebook for a unit has the following limitations:
 - A maximum of 500 phonebook entries can be stored in the unit. If the unit already has phonebook data, it accepts up to the 500th entry, including the existing entries.
 - 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 unit, only the data that has been successfully exported before the interruption is exported to a file.

6.1.2 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 units.

To open the phonebook data on a PC

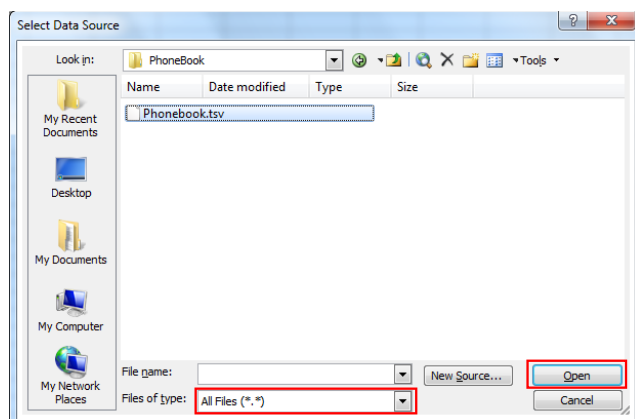
1. Open Microsoft Excel.
2. Click **Office Button**, and then **Open**.

Note

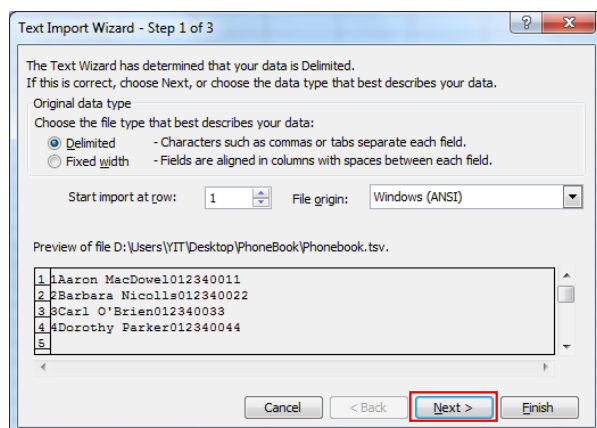
- Make sure to open a TSV file in this procedure. If you change the extension of a TSV file to ".csv", the file will open by simply double-clicking it. However, the character encoding of the file might not be recognized properly, resulting in garbled characters, or the phone numbers might be recognized as numbers, resulting in data alteration.

6.1.2 Editing with Microsoft Excel

3. Select **All Files** for the file type, select the exported phonebook data file, and click **Open**.



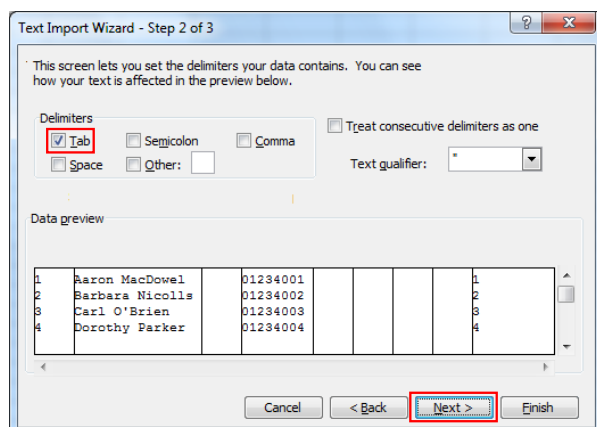
4. On the **Text Import Wizard - Step 1 of 3** window, click **Next**.



Note

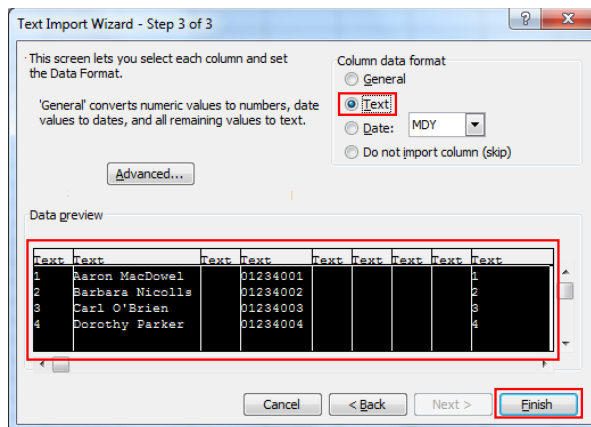
- Regardless of what is selected for **File origin**, the file will be processed normally if the format is appropriate.

5. On the **Text Import Wizard - Step 2 of 3** window, select **Tab** for **Delimiters**, and then click **Next**.



- 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 unit

- 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 unit and Microsoft Excel are not always compatible with each other.

6.1.3 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 unit.

To export the Microsoft Outlook address book data

- In Microsoft Outlook, click **File**, and then click **Import and Export**.
- Select **Export to a file**, and click **Next**.
- Select **Tab Separated Values (Windows)**, and click **Next**.
- Select **Contacts**, and click **Next**.
- Click **Browse**, select a folder, and then enter the file name to export the data to.
- 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 unit. For details, see **6.1.2 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 unit.
- In the file exported from Microsoft Outlook, fields are separated by tabs and encoded using the default character encoding for your operating system.

6.2 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 **4.6.2.2 Dial Plan**) or by configuration file programming (→ see **5.3.34 Call Control Settings**).

6.2.1 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]**.
 - 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 **5.3.34 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. 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. 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. The value of "T" or "t" can be configured through the Web user interface (→ see [Timer for Dial Plan] in 4.6.1.1 Call Control).
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,xxxxxxxxxxx.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 unit 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 if "DIAL_PLAN_NOT_MATCH_ENABLE_n" is set to "N" in a configuration file. The unit recognizes the end of dialing as follows:
 - The inter-digit timer expires (→ see **[Inter-digit Timeout]** in 4.6.1.1 **Call Control** in the Web user interface or "INTDIGIT_TIM" in 5.3.30 **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.
- 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.

6.3 Flexible Keys (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)

You can customize the flexible keys on the unit. They can then be used to make or receive outside calls or as feature buttons (function keys). These settings can be programmed either through the Web user interface (→ see 4.6.5 Flexible Key Settings (No. 1–24) (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430) and 4.6.10 DSS Console (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)) or by configuration file programming (→ see 5.3.31 Flexible Key Settings and 5.3.32 DSS Key Settings (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)).

The following types of flexible keys are available:

Button	Description	Lamp Indication
One Touch Dial	Used to dial a previously set phone number with one touch.	-
BLF (Busy Lamp Field)	Used to show the current status of another extension, call the extension and transfer calls to it. Note • It may be necessary to specify the Resource List URI to use this feature, depending on your phone system (→ see [Resource List URI] in 4.6.2.1 Call Features in the Web user interface or "RESOURCELIST_URI_n" in 5.3.34 Call Control Settings in the configuration file). • Specify the number assigned to a BLF for performing call pickup (→ see [Directed Call Pickup] in 4.6.1.1 Call Control in the Web user interface or "NUM_PLAN_PICKUP_DIRECT" in 5.3.30 Telephone Settings in the configuration file).	Off: The BLF extension is idle. Red on: A corresponding BLF extension is using the line. Flashing red rapidly: The BLF extension is receiving an incoming call.
Line	Used to seize a line in order to make or receive a call. The LED of the function key indicates the status of the line.	Off: The line is idle. Blue on: The line is on a call. Flashing blue slowly: A call is on hold. Flashing blue rapidly: A call (including Hold Recall) is being received to the line (or a shared line). Red on: A shared line is in use or a call is on private hold at another unit. Flashing blue slowly: A shared line is on hold at another unit.

6.3 Flexible Keys (For KX-HDV230/KX-HDV330/KX-HDV340/KX-HDV430)

Button	Description	Lamp Indication
ACD**	Used to log in or log out of a group when ACD (Automatic Call Distribution) is enabled. Note It is necessary to set the ACD feature to enable (→ see [Enable ACD] in 4.3.10 ACD Settings [Line 1]–[Line n] in the Web user interface or "ACD_ENABLE_n" in 5.3.14 Call Center Settings in the configuration file).	Off: Logged in Red on: Logged out
Wrap Up**	The Wrap Up button alternates the setting of Wrap Up mode, Not Ready mode or Ready mode for incoming calls. In Wrap Up mode/Not Ready mode for incoming calls, incoming calls will not be received through the ACD (Automatic Call Distribution) group. Note It is necessary to set the ACD feature to enable (→ see [Enable ACD] in 4.3.10 ACD Settings [Line 1]–[Line n] in the Web user interface or "ACD_ENABLE_n" in 5.3.14 Call Center Settings in the configuration file).	Off: Ready mode for incoming calls Red on: Unavailable Flashing red slowly: Wrap Up
Line Status	Used to confirm the status of each line. This allows the function key to work as a Line key such as seizing a line in order to make or receive a call.	-
Call Forward	Used to forward incoming calls to the assigned extension in the key.	-
Phonebook	Used to open the phonebook.	-
Call History	Used to open the incoming/outgoing call log.	-

Button	Description	Lamp Indication
Simultaneous Ring ^{*1}	Enables parallel ringing. Up to 10 locations can be specified to ring simultaneously when you receive a call. Note It is necessary to set the XSI feature to enable (→ see [Enable Xtended Service] and [Server Address] in 4.3.7 Xtended Service Settings in the Web user interface or "XSI_ENABLE" and "XSI_SERVER" in 5.3.11 XSI Settings in the configuration file).	Off: Simultaneous Ring off Blue on: Simultaneous Ring on
Hoteling (Hospitality) ^{*1}	Used to log in/log out of the Call Center Hoteling Event. Note It is necessary to set the Hoteling (Hospitality) feature to enable (→ see [Enable Call Center] and [Hoteling Event] in 4.3.11 Call Center Settings [Line 1]–[Line n] in the Web user interface or "CALL_CENTER_ENABLE_n" and "CC_HOTELING_EVENT_n" in 5.3.14 Call Center Settings in the configuration file).	-
Transfer	Used to transfer a call to the extension assigned to the key by confirmation transfer or automatic transfer during a conversation.	-
Blind Transfer	Used to transfer a call to the extension assigned to the key by blind transfer during a conversation.	-
Conference	Used to add the extension assigned to the key to a multiple-party conversation (conference).	-
Directed Call Pickup	Used to answer an incoming call arriving at the specified telephone number.	-
Call Park ^{*1}	Used to transfer a call to Call Parking.	-
Call Park Retrieve ^{*1}	Used to retrieve a parked call (Call Parking).	-

6.3.1 Settings using Web User Interface Programming

Button	Description	Lamp Indication
Group Call Pickup	Used to answer a group call as a representative.	-
Network Camera (For KX-HDV430)	Used to connect to a Network Camera.	-
Presence	Used to confirm the current status of the extension assigned to the key.	-
My Phone	Used to configure the current status of My Phone.	-

*1 This is an optional feature and may not be supported on your phone system.

6.3.1 Settings using Web User Interface Programming

To set Flexible Keys

1. In the Web user interface, click the **[Telephone]** tab, and then click **[Flexible Key Settings]**.
2. Enter settings as described in the following table.
When it is necessary to set both parameter 1 and parameter 2, enter a comma between the values.

Button	Parameter 1		Parameter 2	
	Description	Value	Description	Value
One Touch Dial	Phone Number	Up to 32 digits	Line No.	1–n
BLF (Busy Lamp Field)*1	Phone Number	Up to 32 digits	Line No.	1–n
Line	Line No.	1–n	-	-
ACD	Line No.	1–n	-	-
Wrap Up	Line No.	1–n	-	-
Line Status	-	-	-	-
Call Forward	Phone Number	Up to 32 digits	-	-
Phonebook	Classification	• 0: Local & Remote • 1: Local Phonebook • 2: Remote Phonebook	Category	1–9
Call History	Classification	• 0: Call History • 1: Missed Calls • 2: Incoming Calls • 3: Outgoing Calls	-	-
Simultaneous Ring	Line No.	1–n	-	-

Button	Parameter 1		Parameter 2	
	Description	Value	Description	Value
Hoteling (Hospitality)	-	-	-	-
Transfer	Phone Number	Up to 32 digits	-	-
Blind Transfer	Phone Number	Up to 32 digits	-	-
Conference	Phone Number	Up to 32 digits	-	-
Directed Call Pickup	Phone Number	Up to 32 digits	Line No.	1–n
Call Park	Call parking number ²	Up to 16 digits	-	-
Call Park Retrieve	Park retrieve number ²	Up to 16 digits	Line No.	1–n
Group Call Pickup	Phone Number	Up to 32 digits	Line No.	1–n
Network Camera (For KX-HDV430)	Network Camera Number	1–16	-	-
Presence	User ID	Up to 128 digits	-	-
My Phone	-	-	-	-

^{*1} More than 48 BLF keys can be programmed, but LED status indication is available only up to 48 keys.

^{*2} Values may vary depending on your phone system dealer/service provider.

[Setting Example]

The following screen shows an example of setting flexible keys for KX-HDV230.

Panasonic

KX-HDV230 Status Network System VoIP **Telephone** Maintenance

Flexible Key Settings

Web Port Close

Telephone

- Call Control
 - Line 1
 - Line 2
 - Line 3
 - Line 4
 - Line 5
 - Line 6
- Hotline Settings
- Flexible Key Settings**
- Tone Settings
- Import Phonebook
- Export Phonebook

No.	Type	Parameter	Label Name
1	ACD	6	ACD6
2	BLF	9876543210,1	301
3	One Touch Dial	0123456789	Home
4	ACD	5	ACD5
5	Line	1	Line1
6	BLF	11223344,2	302
7	One Touch Dial	9988776655	Office2
8	Line	2	Line2
9	One Touch Dial	123454321	Office1
10	BLF	987656789	303

Description:

6.3.2 Settings using Configuration File Programming

- Button 1 is set to log in and log out of an ACD group on line 6.
- Buttons 2, 6 and 10 are set to show the status of a certain extension. They can also be used to call that extension and transfer calls to it.^{*1}
- Buttons 3, 7 and 9 are set to make calls to a certain destination using the One-Touch Dialing feature.
- Button 4 is set to log in and log out of an ACD group on line 5.
- Buttons 5 and 8 are set to make calls to a certain destination using the Line feature.

^{*1} You can also assign extension numbers automatically to BLF buttons using the information in the server's resource list without having to input information here.

6.3.2 Settings using Configuration File Programming

Flexible keys can be configured by configuration file programming using a combination of 3 parameters:

- Parameter 1 refers to either "FLEX_BUTTON_FACILITY_ACTx" or "DSS_BUTTON_FACILITY_ACTx".
- Parameter 2 refers to either "FLEX_BUTTON_FACILITY_ARGx" or "DSS_BUTTON_FACILITY_ARGx".
- Parameter 3 refers to either "FLEX_BUTTON_LABELx" or "DSS_BUTTON_LABELx".

Details about parameters 1 and 2 are explained in the following table.

Note

- For parameter 2, value 1 and value 2 must be separated by a comma.

Parameter 1	Parameter 2		
Value	Value 1	Value 2	Note
X_PANASONIC_IPTTEL_ONETOUCH	Phone Number (Max. 32 characters)	Line Number (1–n)	Line 1 is set when value 2 is "1", "0", or "None".
X_PANASONIC_IPTTEL_BLF	Phone Number (Max. 32 characters)	Line Number (1–n)	Line 1 is set when value 2 is "1", "0", or "None".
X_PANASONIC_IPTTEL_LINE	Line Number (1–n)	-	The default line is set when value 1 is "0" or "None".
X_PANASONIC_IPTTEL_ACD	Line Number (1–n)	-	The default line is set when value 1 is "0" or "None".
X_PANASONIC_IPTTEL_WRAPUP	Line Number (1–n)	-	The default line is set when value 1 is "0" or "None".
X_PANASONIC_IPTTEL_LINESTATUS	-	-	-
X_PANASONIC_IPTTEL_FORWARD	Phone Number (Max. 32 characters)	-	-

Parameter 1	Parameter 2		
Value	Value 1	Value 2	Note
X_PANASONIC_IPTTEL_PHONEBOOK	1 (Local Phonebook)	Category Number (1–9)	The search by name screen is displayed when value 2 is "0" or "None".
	2 (Remote Phonebook)	-	-
	0 or None (Select Phonebook)		
X_PANASONIC_IPTTEL_CALLLOG	1 (Missed Call)	-	-
	2 (Incoming Call Log)		
	3 (Outgoing Call Log)		
	0 or None (Select Logs)		
X_PANASONIC_IPTTEL_PARARING	Line Number (1–n)	-	-
X_PANASONIC_IPTTEL_HOTELING	-	-	-
X_PANASONIC_IPTTEL_TRANSFER	Phone Number (Max. 32 characters)	-	-
X_PANASONIC_IPTTEL_BLINDTRANSFER	Phone Number (Max. 32 characters)	-	-
X_PANASONIC_IPTTEL_CONFERENCE	Phone Number (Max. 32 characters)	-	-
X_PANASONIC_IPTTEL_DIRECTPICKUP	Phone Number (Max. 32 characters)	Line Number (1–n)	-
X_PANASONIC_IPTTEL_CALLPARK	Call parking number (Max. 16 characters)	-	If value 1 is not set, the value of "NUM_PLAN_PARKING" is used.
X_PANASONIC_IPTTEL_PARKRETRIEVE	Park retrieve number (Max. 16 characters)	Line Number (1–n)	If value 1 is not set, the value of "NUM_PLAN_PARK_RETRIEVING" is used.
X_PANASONIC_IPTTEL_GROUPPICKUP	Phone Number (Max. 32characters)	Line Number (1–n)	-
X_PANASONIC_IPTTEL_NETWORKCAMERA (For KX-HDV430)	Network Camera Number (1–16)	-	-

Parameter 1	Parameter 2		
Value	Value 1	Value 2	Note
X_PANASONIC_IPTTEL_APPLICATION	-	-	-
X_PANASONIC_IPTTEL_PRESENCE	User ID (Up to 128 digits)	-	-
X_PANASONIC_IPTTEL_MYPHONE	-	-	-

6.4 Broadsoft XSI (Xtended Services Interface)

6.4.1 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 350), 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 350), 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.

6.4.2 XSI Service Settings

Phone settings for using XSI services can be set using configuration parameters or the Web user interface (administrators only).

See **4.3.7 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 247
XSI_SERVER	Specifies the XSI server.	page 247
XSI_SERVER_TYPE	Specifies the communication method.	page 248
XSI_SERVER_PORT	Specifies the port used for communication with the XSI server.	page 248
XSI_USERID_n	Specifies the user name for each user (account) that will use XSI.	page 248
XSI_PASSWORD_n	Specifies the password for each user (account) that will use XSI.	page 248
XSI_PHONEBOOK_ENABLE_n	Specifies whether to enable or disable the Xsi phonebook service.	page 248
XSI_PHONEBOOK_CYCLIC_INTVL	Specifies the interval, in minutes, between periodic checks for updates of the Xsi Directory (Phonebook) files.	page 249
XSI_PHONEBOOK_RESYNC_DURATION	Specifies the time range, in minutes, during which units will access the server at a random time.	page 249
XSI_PHONEBOOK_TYPE_n	Specifies the type of Xsi phonebook.	page 249
XSI_CALLLOG_ENABLE_n	Specifies whether to enable or disable the Xsi call log service.	page 249
XSI_VISUAL_VM_ENABLE_n	Specifies whether to enable or disable the Visual Voice Mail feature of the selected line.	page 250
XSI_SIP_CREDENTIALS_ENABLE	Specifies whether to enable or disable the XSI SIP Credentials feature.	page 250
BSD_MULTI_TYPE_ENABLE	Specifies whether you can select the type of Xsi phonebook.	page 250
BSD_GROUP_ENABLE_n	Specifies whether to enable or disable the "Group" type for Xsi phonebooks.	page 250
BSD_GROUPCOM_ENABLE_n	Specifies whether to enable or disable the "GroupCommon" type for Xsi phonebooks.	page 251

6.5 BroadCloud (Presence)

Parameter Name	Description	Reference
BSD_ENTERPRISE_ENABLE_n	Specifies whether to enable or disable the "Enterprise" type for Xsi phonebooks.	page 251
BSD_ENTERPRISECOM_ENABLE_n	Specifies whether to enable or disable the "EnterpriseCommon" type for Xsi phonebooks.	page 251
BSD_PERSONAL_ENABLE_n	Specifies whether to enable or disable the "Personal" type for Xsi phonebooks.	page 251
XSI_ACTION_URL	Specifies a part of the XSI-Action URL.	page 252

Note

To change settings for the following XSI services using a unit, the parameter ADMIN_ABILITY_ENABLE="Y" (see page 348) must be set. (When ADMIN_ABILITY_ENABLE="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 unit display.

Operations for accessing the above XSI services

KX-HDV130/KX-HDV230

1. **MENU**
2. **[▲]/[▼]: Basic Settings → OK**
3. **[▲]/[▼]: Call Settings → OK**
4. **[▲]/[▼]: Remote Office, Anywhere, SimultaneousRing, Anonymous Call, or Block Anonymous → OK**

KX-HDV330/KX-HDV340/KX-HDV430

[In standby mode]

1. Tap **▶ / ◀** → "Advanced Settings"
2. Tap "Call Settings"
3. Tap **▲ / ▼** → "Remote Office", "Anywhere", "SimultaneousRing", "Anonymous Call", or "Block Anonymous".

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

6.5 BroadCloud (Presence)

6.5.1 Outline

This product 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.

6.5.2 BroadCloud (Presence) Function Settings

Phone settings for using XMPP functions can be set using configuration parameters or the Web user interface (administrators only).

See **4.3.8 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 252
UC_USERID	Specifies user IDs for the BroadCloud server.	page 252
UC_PASSWORD	Specifies passwords for the BroadCloud server.	page 252
XMPP_SERVER	Specifies the IP address or FQDN of the XMPP server.	page 252
XMPP_PORT	Specifies the communication port for XMPP.	page 253
XMPP_TLS_VERIFY	Specifies the TLS (Transport Layer Security) certification validation type for protocol communication.	page 253
XMPP_ROOT_CERT_PATH	Specifies the path (URL) of the ROOT certificate for XMPP.	page 253
XMPP_CLIENT_CERT_PATH	Specifies the path (URL) of the Client certificate for XMPP.	page 253
XMPP_PKEY_PATH	Specifies the path (URL) of the private key for XMPP.	page 253
UC_DNSSRV_ENA	Specifies whether to request the DNS server to translate domain names into IP addresses using the SRV record.	page 254
UC_TCP_SRV_PREFI X	Specifies a prefix to add to the domain name when performing a DNS SRV lookup using TCP.	page 254
UC_USERID_CASE_ SENSITIVE	Specifies whether the authentication ID is case-sensitive when accessing the UC server.	page 254

Section 7

Firmware Update

This section explains how to update the firmware of the unit.

7.1 Firmware Server Setup

(For KX-HDV130)

You can use an HTTP server as the firmware server by simply setting its URL.

(For KX-HDV230 / KX-HDV330 / KX-HDV340 / KX-HDV430)

You can use an HTTP, HTTPS, FTP, or TFTP server as the firmware server by simply setting its URL.

Note

- This feature is available only in IPv4 mode.
- A firmware update takes about 4 minutes.
- The unit will restart after the firmware update is complete.
- The unit cannot be used while the firmware is being updated.
- It is recommended to select a time for updating in which the unit will not be used. (For details about the timing of updating configuration files, see **2.2.4 Downloading Configuration Files**.)

7.2 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 **5.3.6 Firmware Update Settings**) or Web user interface programming (→ see **4.7.2 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"
```

7.3 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

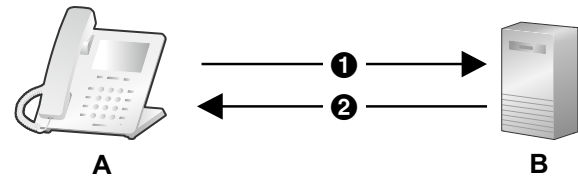
Note

- 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.**



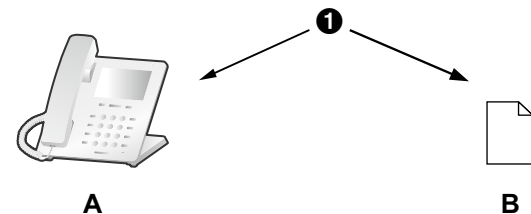
- ① Provisioning Server Address
- ② Configuration File

A. SIP Phone

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.)



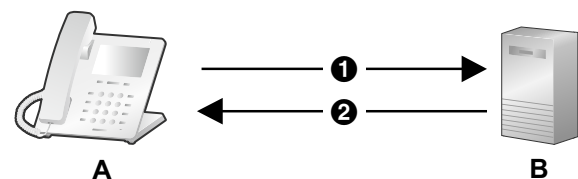
- ① Compare

A. SIP Phone
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. SIP Phone

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

7.4 Upgrade Firmware (For KX-HDV130/KX-HDV230)

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 manual firmware update, see **4.7.3 Upgrade Firmware (For KX-HDV130/KX-HDV230)**.

KX-HDV130

To manually update the firmware

1. In the Web user interface, click the **[Maintenance]** tab, and then click **[Upgrade Firmware]**.
2. Enter a URL in **[Firmware File URL]**.
Example: <http://firm.example.com/firm/01.050.fw>
3. Click **[Upgrade Firmware]**.

Note

- You can use an HTTP server as the firmware server by simply setting its URL.
- A firmware update takes about 4 minutes.
- The unit will restart after the firmware update is complete.
- The unit cannot be used while the firmware is being updated.

KX-HDV230

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 **[Upgrade Firmware]**.

Section 8

Troubleshooting

This section provides information about troubleshooting.

8.1 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
The display is blank.	• The unit may not be receiving power. The unit is not designed to function when there is a power failure. Make sure that the device supplying PoE is receiving power and that the Ethernet cable is properly connected. (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.) If an AC adaptor is connected, confirm that the AC adaptor is connected and receiving power.
I cannot hear a dial tone.	• 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.

Making/Answering Calls, Intercom

Problem	Cause/Solution
The unit does not ring.	• 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. – If [Enable Do Not Disturb] is set to [Yes], the unit does not receive calls (→ see 4.6.2.1 Call Features). – If [Enable Call Forwarding No Answer] is set to [Yes], the unit does not receive calls (→ see 4.6.2.1 Call Features). – If [Enable Block Anonymous Call] is set to [Yes], the unit does not receive anonymous calls (→ see 4.6.2.1 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.	• 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.	• Consult your network administrator or phone system dealer. For security reasons, it is recommended that the passwords are set again immediately (→ see 4.4.3 Admin Password Settings or 4.4.2 User Password Settings).

Time

Problem	Cause/Solution
The time is not correct.	- In the Web user interface, you can set NTP synchronization and DST (Summer Time) control to adjust the time automatically (→ see 4.4.4 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

During operation, error messages might appear on the unit. The following table lists these messages and possible causes and solutions.

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 unit, 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 **4.2.2 Network Status** and **4.2.3 VoIP Status**) or by looking at system logs (see **5.3.38 Logging Settings**) sent from the unit.

To check the setting status in the Web user interface

1. Click the **[Status]** tab, and then click **[Network Status]** to check the network settings.
2. Check the status displayed.
3. Click **[VoIP Status]** to check the VoIP settings.
4. Check the status displayed.

To check the setting status using the Unit

KX-HDV130/KX-HDV230

1. **MENU**
2. **[▲]/[▼]: System Settings → OK**
3. **[▲]/[▼]: Status → OK**

KX-HDV330/KX-HDV340/KX-HDV430

To check the setting status using the Unit

[In standby mode]

1. Tap  /  → **System Settings**.
2. Tap **Status**.

Export Logging File

Export the log file using the Web user interface (see **4.7.4 Export Logging File**).

Section 9

Appendix

9.1 Revision History

9.1.1 Software File Version 06.000 or later

New Contents

- 4.5.1 SIP Settings—TLS Port Random, page 116
- 4.5.1 SIP Settings—UDP Port Random, page 116
- 5.3.2 Basic Network Settings—NW_TEST_COUNT, page 218
- 5.3.2 Basic Network Settings—NW_TEST_TIMER, page 218
- 5.3.11 XSI Settings—XSI_ACTION_URL, page 252
- 5.3.22 SIP Settings—ENH_FOVR_RESPONSE_CODE, page 299
- 5.3.22 SIP Settings—ENH_FOVR_REGISTER_ENABLE_n, page 299
- 5.3.22 SIP Settings—ENH_FOVR_INVITE_ENABLE_n, page 299
- 5.3.22 SIP Settings—ENH_FOVR_SUBSCRIBE_ENABLE_n, page 300
- 5.3.22 SIP Settings—ENH_FOVR_BYE_ENABLE_n, page 300
- 5.3.22 SIP Settings—SUBSCRIBE_403_REGSEND_ENABLE_n, page 300
- 5.3.22 SIP Settings—SIP_UDP_RANDOM_PORT, page 300
- 5.3.30 Telephone Settings—BLF_AUTO_SETTING_ENABLE, page 325
- 5.3.30 Telephone Settings—ECO_MODE_PASS_ENABLE, page 325
- 5.3.30 Telephone Settings—EMBEDDED_WEB_PASS_ENABLE, page 325
- 5.3.30 Telephone Settings—NETWORK_SETTINGS_PASS_ENABLE, page 325
- 5.3.30 Telephone Settings—AUTHENTICATION_PASS_ENABLE, page 326
- 5.3.38 Logging Settings—SYSLOG_TRANSPORT, page 368
- 5.3.38 Logging Settings—SYSLOG_TLS_VERIFY, page 368
- 5.3.38 Logging Settings—SYSLOG_ROOT_CERT_PATH, page 368
- 5.3.38 Logging Settings—SYSLOG_CLIENT_CERT_PATH, page 368
- 5.3.38 Logging Settings—SYSLOG_PKEY_PATH, page 368

Changed Contents

- 2.1.5 Obtaining a Provisioning Server Address from DHCP Options, page 28
- 4.4.2 User Password Settings—Current Password, page 101
- 4.4.2 User Password Settings—New Password, page 101
- 4.4.2 User Password Settings—Confirm New Password, page 102
- 4.4.3 Admin Password Settings—Current Password, page 102
- 4.4.3 Admin Password Settings—New Password, page 103
- 4.4.3 Admin Password Settings—Confirm New Password, page 103
- 5.3.8 HTTPD/WEB Settings—USER_PASS, page 234
- 5.3.8 HTTPD/WEB Settings—ADMIN_PASS, page 235

9.1.2 Software File Version 07.000 or later

New Contents

- 5.3.1 System Settings—SOFT_KEY_EDIT_MENU_ENABLE (For KX-HDV130/KX-HDV230), page 209
- 5.3.1 System Settings—DISPLAY_DATE_FORMAT, page 209
- 5.3.1 System Settings—DISPLAY_TIME_FORMAT, page 210
- 5.3.1 System Settings—DATE_FORMAT_MENU_ENABLE, page 210
- 5.3.1 System Settings—TIME_FORMAT_MENU_ENABLE, page 210
- 5.3.5 Provisioning Settings—HTTP_SSL_TIME_ASYNC_VERIFY, page 229
- 5.3.28 VQ Report by PUBLISH—VQREPORT_PACKET_LOSS_DETECTION, page 314
- 5.3.30 Telephone Settings—PB_QUICK_SEARCH_ENABLE, page 326
- 5.3.34 Call Control Settings—AUTO_ANSWER_DEVICE_ENABLE, page 358

Changed Contents

- 4.3.1 Basic Network Settings—DHCP Host Name, page 68
- 5.3.2 Basic Network Settings—DHCP_HOST_NAME, page 216
- 5.3.5 Provisioning Settings—HTTP_SSL_VERIFY, page 228

9.1.3 Software File Version 07.100 or later

New Contents

- 5.3.1 System Settings—NOTIFY_BACK_KEY_DISPLAY_MODE (For KX-HDV230), page 212
- 5.3.14 Call Center Settings—CC_UNAVAILABLE_REASON_ENABLE (For KX-HDV130/KX-HDV230), page 261
- 5.3.14 Call Center Settings—CC_UNAVAILABLE_CODEx (For KX-HDV130/KX-HDV230), page 262
- 5.3.14 Call Center Settings—CC_UNAVAILABLE_NAMEx (For KX-HDV130/KX-HDV230), page 262
- 5.3.30 Telephone Settings—CONF_RETRIEVE_HOLDKEY_ENABLE (For KX-HDV230), page 326
- 5.3.30 Telephone Settings—DISPLAY_BARGE_IN_ENABLE (For KX-HDV130/KX-HDV230), page 327
- 5.3.30 Telephone Settings—DISPLAY_CHECKSYNC_ENABLE (For KX-HDV130/KX-HDV230), page 327
- 5.3.30 Telephone Settings—CW_DISPLAY_CONTINUATION_ENABLE (For KX-HDV130/KX-HDV230), page 327

9.1.4 Software File Version 08.000 or later

New Contents

- 5.3.1 System Settings—SPECIAL_CODE_LOG_ENABLE, page 213
- 5.3.2 Basic Network Settings—DHCPD_RECOVERY_TIME (For KX-HDV130), page 218
- 5.3.3 Ethernet Port Settings—VLAN_CONTROL_PC_ENABLE (For KX-HDV130/KX-HDV230), page 222
- 5.3.5 Provisioning Settings—SETTING_PRIORITY_OPTION, page 230
- 5.3.30 Telephone Settings—BLF_OPERATION_MODE (For KX-HDV130/KX-HDV230), page 328
- 5.3.30 Telephone Settings—SWITCH_DISPLAY_ENABLE (For KX-HDV130/KX-HDV230), page 328

Changed Contents

- 4.7.1 Provisioning Maintenance—Header Value for Resync Event, page 160
- 5.3.5 Provisioning Settings—CFG_RESYNC_FROM_SIP, page 226

9.1.5 KX-HDV340 Software File Version 08.000 or later KX-HDV130/KX-HDV230/KX-HDV330/KX-HDV430 Software File Version 08.100 or later

Deleted Contents

- 5.3.22 SIP Settings—MUTIPART_BOUNDARY_DELIMITER_n
- 5.3.22 SIP Settings—AKA_AUTHENTICATION_ENABLE_n
- 5.3.22 SIP Settings—RFC4244_SUPPORT_HISTORY
- 5.3.22 SIP Settings—RFC3319_SUPPORT_JOIN
- 5.3.22 SIP Settings—RFC5627_SUPPORT_GRUU_n

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