

**Panasonic**®



## **Administrator Guide**

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### **SIP Phone**

**Model No.**

**KX-HDV130/  
KX-HDV230/  
KX-HDV330/  
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**).

### 1.1.3 Basic Network Setup

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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. **[MENU]**
2. **[▲]/[▼]: "System Settings" → [OK]**
3. **[▲]/[▼]: "Network Settings" → [OK]**
4. **[▲]/[▼]: "IP Mode Select" → [OK]**
5. **[▲]/[▼]: "IPv4" / "IPv6" / "IPv4&IPv6" → [OK]**
  - The initial value is **IPv4**.

#### KX-HDV330/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. **[MENU]**
2. **[▲]/[▼]: "System Settings" → [OK]**
3. **[▲]/[▼]: "Network Settings" → [OK]**
4. **[▲]/[▼]: "IPv4 Settings" → [OK]**
5. **[▲]/[▼]: "DHCP" → [OK]**
6. **[▲]/[▼]: "Auto" → [OK]**
  - 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-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. **MENU**
2. **[▲]/[▼]: "System Settings" → OK**
3. **[▲]/[▼]: "Network Settings" → OK**
4. **[▲]/[▼]: "IPv4 Settings" → OK**
5. **[▲]/[▼]: "Static" → OK**
6. Enter the IP address, subnet mask, default gateway, DNS1 (primary DNS server), and, if necessary, DNS2 (secondary DNS server), and then press **OK**.

### KX-HDV330/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. **MENU**
2. **[▲]/[▼]: "System Settings" → OK**
3. **[▲]/[▼]: "Network Settings" → OK**
4. **[▲]/[▼]: "IPv6 Settings" → OK**
5. **[▲]/[▼]: "DHCP" → OK**

### 1.1.3 Basic Network Setup

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#### 6. [▲]/[▼]: "Auto" → **OK**

- 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-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. **MENU**
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-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. **[MENU]**
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-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:

<b>Programming Type</b>	<b>Description</b>	<b>References</b>
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

## 1.1.5 Phone User Interface Programming

Programming Type	Description	References
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**.

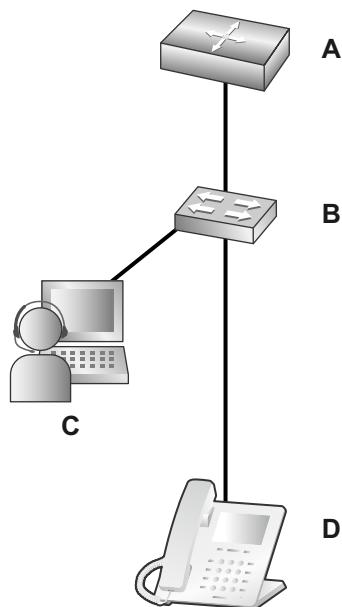
### 1.1.5.1 Changing the Language for Phone User Interface Programming

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:

<b>HTTP Version</b>	HTTP/1.0 (RFC 1945), HTTP/1.1 (RFC 2616)
<b>Authentication Method</b>	Digest

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

<b>Operating System</b>	Microsoft® Windows® 7 or Windows 8 operating system
<b>Web Browser</b>	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)
<b>Language (recommended)</b>	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. **[MENU]**
2. **[▲]/[▼]: "Basic Settings" → [OK]**
3. **[▲]/[▼]: "Other Option" → [OK]**
4. **[▲]/[▼]: "Embedded Web" → [OK]**
5. **[▲]/[▼]: "Off" for "Embedded Web" → [OK]**

#### Note

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

1. **[▲]/[▼]: "System Settings" → [OK]**
2. **[▲]/[▼]: "Network Settings" → [OK]**
3. **[▲]/[▼]: "Embedded Web" → [OK]**

#### KX-HDV330/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)	<ul style="list-style-type: none"> <li>• When logged in as User, you can change the password for the User account (→ see <b>4.4.2 User Password Settings</b>).</li> <li>• The password can consist of 6 to 64 ASCII characters (case-sensitive) (→ see <b>Entering Characters</b> in <b>1.1.6.4 Accessing the Web User Interface</b>).</li> </ul>
Administrator	Network administrators, etc.	admin	adminpass	<ul style="list-style-type: none"> <li>• When logged in as Administrator, you can change the password for both the User and Administrator accounts (→ see <b>4.4.3 Admin Password Settings</b>).</li> <li>• The password can consist of 6 to 64 ASCII characters (case-sensitive) (→ see <b>Entering Characters</b> in <b>1.1.6.4 Accessing the Web User Interface</b>).</li> </ul>

### 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. **MENU**
2. **[▲]/[▼]**: "System Settings" → **OK**
3. **[▲]/[▼]**: "Status" → **OK**
4. **[▲]/[▼]**: "IPv4 Settings"/"IPv6 Settings" → **OK**
5. **[▲]/[▼]**: "IP Address". (IPv6 only)

#### **KX-HDV330/KX-HDV430**

[In standby mode]

1. Tap **▶/◀** → "System Settings"
2. Tap "Status"
3. Tap **▲/▼** → "IPv4 Settings"/"IPv6 Settings"
4. Tap "IP Address"<sup>\*\*1</sup>

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.

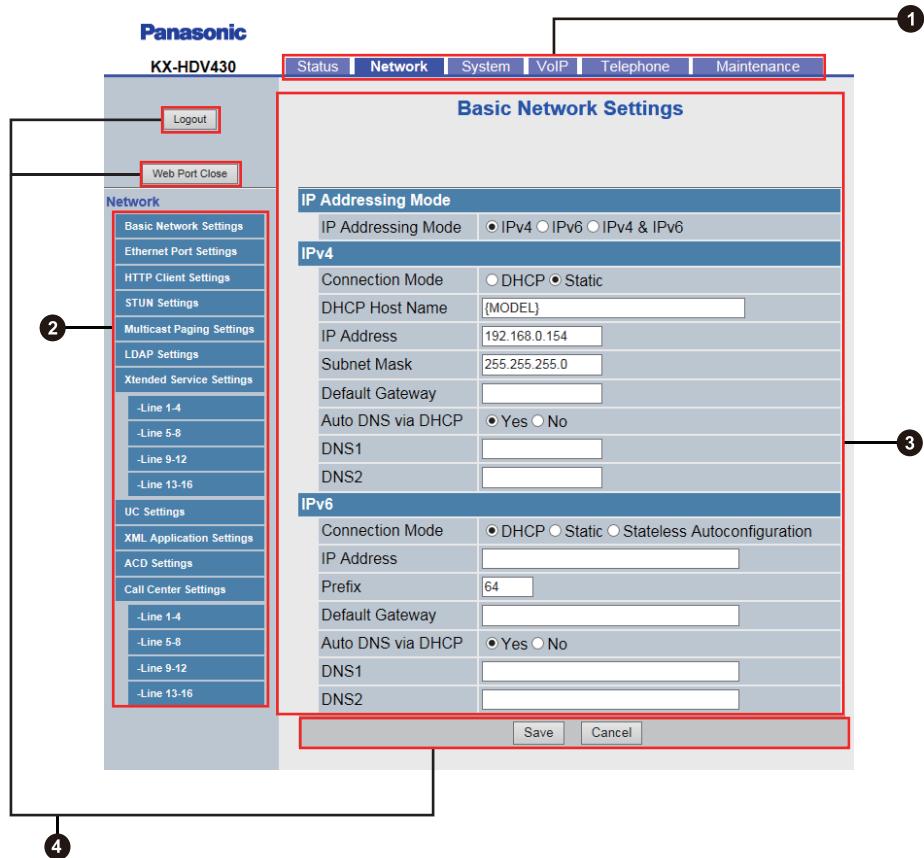
3. The Web user interface window is displayed. Configure the settings for the unit as desired.

4. You can log out from the Web user interface at any time by clicking [**Web Port Close**].

<sup>1</sup> 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.
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 <b>Result Messages</b> 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 <b>[Network Status]</b> and <b>[VoIP Status]</b> 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 <b>4.6.8 Export Phonebook</b>
Failed (Parameter Error)	The operation failed because: <ul style="list-style-type: none"> <li>• Some specified values are out of range or invalid.</li> </ul>	All screens
Failed (Memory Access Failure)	The operation failed because: <ul style="list-style-type: none"> <li>• Access error to the flash memory occurred while reading or writing the data.</li> </ul>	All screens
Failed (Transfer Failure) <sup>†</sup>	The operation failed because: <ul style="list-style-type: none"> <li>• A network error occurred during the data transmission.</li> </ul>	All screens
Failed (Busy)	The operation failed because: <ul style="list-style-type: none"> <li>• The unit is in an operation that accesses the flash memory of the unit.</li> </ul>	All screens
	<ul style="list-style-type: none"> <li>• When attempting to import/export the phonebook data, the unit is on a call.</li> <li>• While transferring the phonebook data, a call arrived at the unit.</li> </ul>	<b>4.6.7 Import Phonebook</b> <b>4.6.8 Export Phonebook</b>
Failed (Canceled)	The operation failed because: <ul style="list-style-type: none"> <li>• While transferring the phonebook data, the connection with the unit was interrupted.</li> </ul>	<b>4.6.7 Import Phonebook</b> <b>4.6.8 Export Phonebook</b>
Failed (Invalid File)	The operation failed because: <ul style="list-style-type: none"> <li>• Analysis of the received data failed.</li> </ul>	<b>4.6.7 Import Phonebook</b>
Failed (File Size Error)	The operation failed because: <ul style="list-style-type: none"> <li>• The size of the imported phonebook is too large.</li> </ul>	<b>4.6.7 Import Phonebook</b>

Result Message	Description	Applicable Screens
No Data	The operation failed because: <ul style="list-style-type: none"> <li>The imported phonebook file contains no valid phonebook entries.</li> </ul>	<b>4.6.7 Import Phonebook</b>
	<ul style="list-style-type: none"> <li>No phonebook entry is registered in the export source the unit.</li> </ul>	<b>4.6.8 Export Phonebook</b>

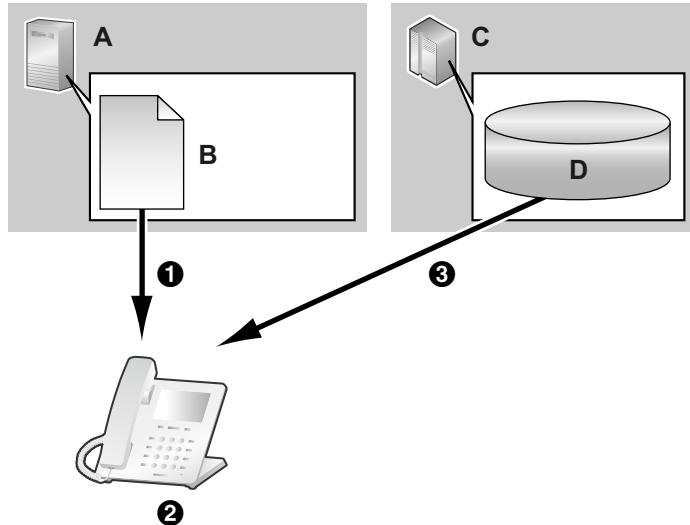
<sup>1</sup> "Failed (Transfer Failure)" may not be displayed depending on your Web browser.

## 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

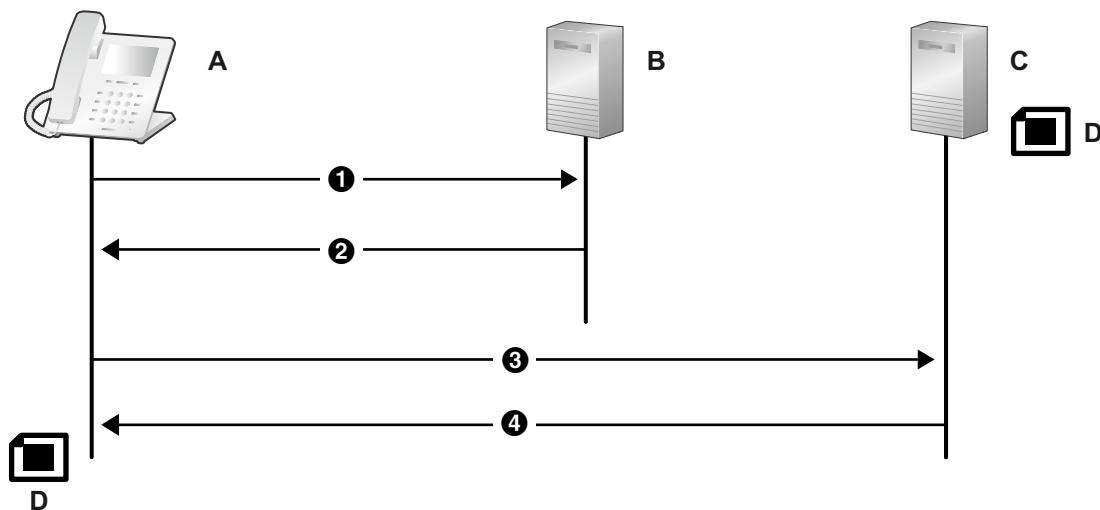
**Note**

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

<schema>	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

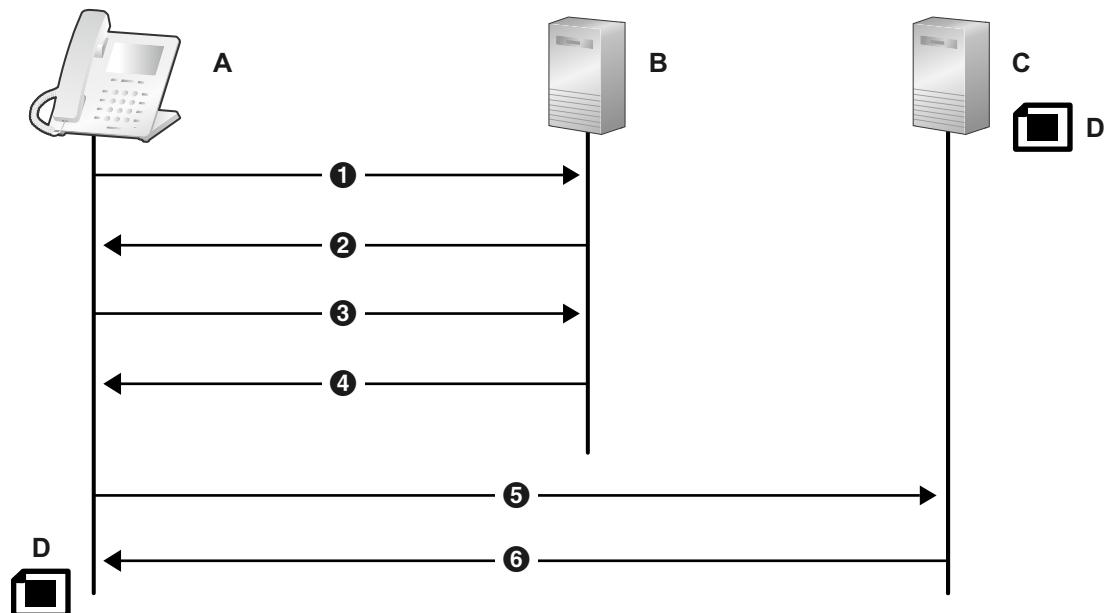
##### a. Basic Sequence

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	<b>OPTION66_ENABLE</b>	3
Option 159	<b>OPTION159_PROV_ENABLE</b>	2
Option 160	<b>OPTION160_PROV_ENABLE</b>	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>

<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

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

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

Otherwise DHCP option 66 includes <file name>.

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

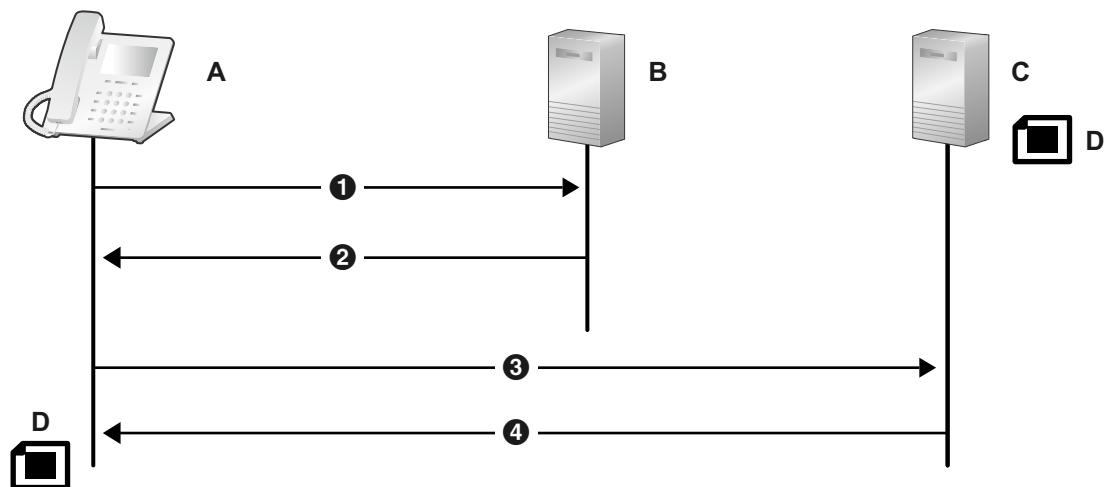
tftp://10.0.0.1 (tftp://10.0.0.1/{MODEL}.cfg)  
tftp://prov.com (tftp://prov.com/{MODEL}.cfg)

## 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://[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://[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@[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: <a href="http://prov.example.com/Panasonic/ConfigCommon.cfg">http://prov.example.com/Panasonic/ConfigCommon.cfg</a>

Type	Usage
Product configuration file	<p>Configure settings that are required for a particular model, such as the default setting of the privacy mode. This configuration file is used by all the units that have the same model name.</p> <p>The same number of configuration files as models being used on the network are stored on the provisioning server, and units with the same model name download the corresponding configuration file.</p> <p>Example of the configuration file's URL:  <a href="http://prov.example.com/Panasonic/Config{MODEL}.cfg">http://prov.example.com/Panasonic/Config{MODEL}.cfg</a></p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>When a unit requests the configuration file, "{MODEL}" is replaced by the model name of the unit.</li> </ul>
Standard configuration file	<p>Configure settings that are unique to each unit, such as the phone number, user ID, password, etc.</p> <p>The same number of configuration files as units are stored on the provisioning server, and each unit downloads the corresponding standard configuration file.</p> <p>Example of the configuration file's URL:  <a href="http://prov.example.com/Panasonic/Config{MAC}.cfg">http://prov.example.com/Panasonic/Config{MAC}.cfg</a></p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>When a unit requests the configuration file, "{MAC}" is replaced by the MAC address of the unit.</li> </ul>

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	<a href="http://prov.example.com/Panasonic/ConfigSales.cfg">http://prov.example.com/Panasonic/ConfigSales.cfg</a>
Planning	<a href="http://prov.example.com/Panasonic/ConfigPlanning.cfg">http://prov.example.com/Panasonic/ConfigPlanning.cfg</a>

## 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.

## 2.2.4 Downloading Configuration Files

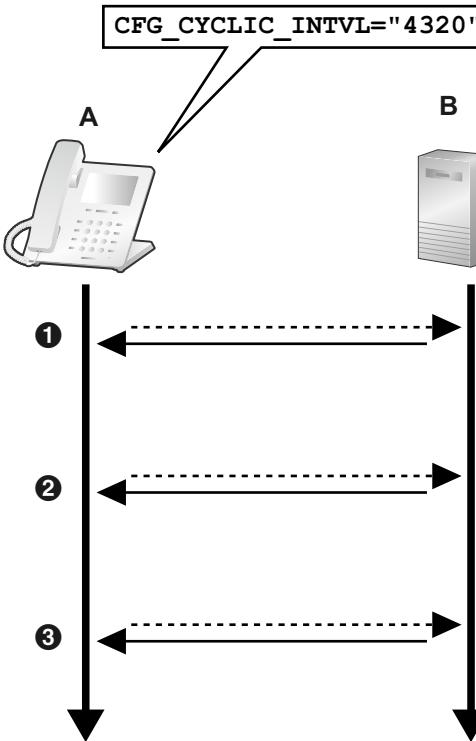
---

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

### Timing of Downloading

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

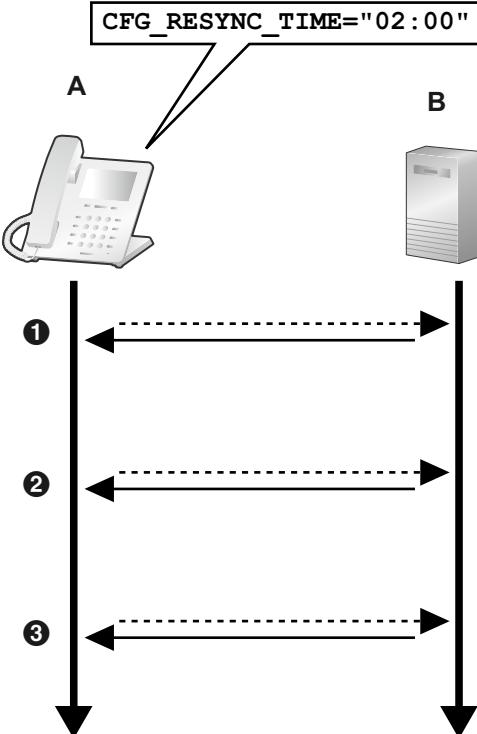
Download Timing	Explanation
Startup	The configuration files are downloaded when the unit starts up.

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

## 2.2.4 Downloading Configuration Files

---

Download Timing	Explanation
	<p>The configuration files are downloaded periodically under the following conditions:</p> <ul style="list-style-type: none"><li>• In the configuration file, add the line, <code>CFG_CYCLIC="Y"</code>.<ul style="list-style-type: none"><li>– Set an interval (minutes) by specifying "<code>CFG_CYCLIC_INTVL</code>".</li></ul></li><li>• In the Web user interface:<ul style="list-style-type: none"><li>– Click the <b>[Maintenance]</b> tab, click <b>[Provisioning Maintenance]</b>, and then select <b>[Yes]</b> for <b>[Cyclic Auto Resync]</b>.</li><li>– Enter an interval (minutes) in <b>[Resync Interval]</b>.</li></ul></li></ul> <p><b>Note</b></p> <ul style="list-style-type: none"><li>• 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.</li></ul>

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

## 2.2.5 Provisioning Server Setting Example

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

## 2.2.5 Provisioning Server Setting Example

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

### Conditions

Item	Description/Setting
Provisioning server FQDN	prov.example.com
Units' MAC addresses	<ul style="list-style-type: none"><li>• 0080F0111111</li><li>• 0080F0222222</li></ul>
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. <ul style="list-style-type: none"><li>• CFG_STANDARD_FILE_PATH="http://prov.example.com/Panasonic/Config{MAC}.cfg"</li><li>• CFG_MASTER_FILE_PATH="http://prov.example.com/Panasonic/ConfigCommon.cfg"</li></ul>
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. <ul style="list-style-type: none"><li>• Contains the common settings for the 2 units:<ul style="list-style-type: none"><li>– ConfigCommon.cfg</li></ul></li><li>• Contains the settings unique to each unit:<ul style="list-style-type: none"><li>– Config0080F0111111.cfg</li><li>– Config0080F0222222.cfg</li></ul></li></ul>

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\_RESET\_SYNC\_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
```

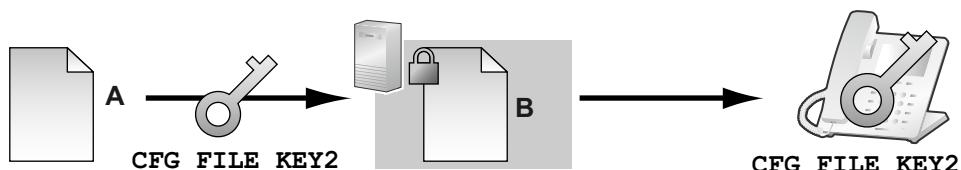
## 2.2.6 Encryption

### 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\_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-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

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

## 2.5 Configuration File Examples

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

- Simplified Example of the Configuration File
- Comprehensive Example of the Configuration File

### 2.5.1 Examples of Codec Settings

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

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

## 2.5.2 Example with Incorrect Descriptions

---

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

## 2.5.2 Example with Incorrect Descriptions

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

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

### Incorrect Example

```
# This is a simplified sample configuration file. —①
#####
# 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 —②
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 <sup>1</sup>		Ref.
			U	A	
Version Information	Version Information	Model	✓	✓	page 61
		Operating Bank (For KX-HDV230)	✓	✓	page 61
		IPL Version	✓	✓	page 61
		Firmware Version	✓	✓	page 62
Network Status	Network Common	MAC Address	✓	✓	page 62
		Ethernet Link Status	✓	✓	page 62
		IP Address Mode	✓	✓	page 62
	IPv4	Connection Mode	✓	✓	page 63
		IP Address	✓	✓	page 63
		Subnet Mask	✓	✓	page 63
		Default Gateway	✓	✓	page 63
		DNS1	✓	✓	page 63
		DNS2	✓	✓	page 64
	IPv6	Connection Mode	✓	✓	page 64
		IP Address	✓	✓	page 64
		Prefix	✓	✓	page 64
		Default Gateway	✓	✓	page 64
		DNS1	✓	✓	page 64
		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 <sup>*1</sup>		Ref.
			U	A	
VoIP Status	VoIP Status	Line No.	✓	✓	page 66
		Phone Number	✓	✓	page 66
		VoIP Status	✓	✓	page 66

<sup>\*1</sup> 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 <sup>*1</sup>		Ref.
			U	A	
Basic Network Settings	IPv4	IP Addressing Mode		✓	page 67
		Connection Mode <sup>*2</sup>		✓	page 67
		DHCP Host Name <sup>*3</sup>		✓	page 68
		IP Address <sup>*2</sup>		✓	page 68
		Subnet Mask <sup>*2</sup>		✓	page 68
		Default Gateway <sup>*2</sup>		✓	page 69
		Auto DNS via DHCP <sup>*2</sup>		✓	page 69
		DNS1 <sup>*2</sup>		✓	page 69
		DNS2 <sup>*2</sup>		✓	page 69
	IPv6	Connection Mode <sup>*2</sup>		✓	page 69
		IP Address <sup>*2</sup>		✓	page 70
		Prefix <sup>*2</sup>		✓	page 70
		Default Gateway <sup>*2</sup>		✓	page 70
		Auto DNS via DHCP <sup>*2</sup>		✓	page 71
		DNS1 <sup>*2</sup>		✓	page 71
		DNS2 <sup>*2</sup>		✓	page 71
Ethernet Port Settings	Link Speed/Duplex Mode	LAN Port <sup>*2</sup>		✓	page 72
		PC Port <sup>*2</sup>		✓	page 72
	LLDP	Enable LLDP <sup>*2</sup>		✓	page 73
		Packet Interval <sup>*3</sup>		✓	page 73
		PC VLAN ID <sup>*2</sup>		✓	page 73
		PC Priority <sup>*2</sup>		✓	page 73
	CDP	Enable CDP <sup>*2</sup>		✓	page 73
		Packet Interval <sup>*2</sup>		✓	page 74

## 4.1 Web User Interface Setting List

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

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

## 4.1 Web User Interface Setting List

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

<sup>\*1</sup> The access levels are abbreviated as follows:

U: User; A: Administrator

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

<sup>\*2</sup> This setting can also be configured through other programming methods (phone user interface programming or configuration file programming).

<sup>\*3</sup> This setting can also be configured through configuration file programming.

## System

Menu Item	Section Title	Setting	Access Level <sup>1</sup>		Ref.
			U	A	
Language Settings	Selectable Language	IP Phone <sup>*3</sup>		✓	page 98
		Web Language <sup>*3</sup>		✓	page 99
	Language Settings	IP Phone <sup>*3</sup>	✓	✓	page 100
		Web Language <sup>*3</sup>	✓	✓	page 100
User Password Settings	User Password	Current Password	✓	✓	page 101
		New Password <sup>*3</sup>	✓	✓	page 101
		Confirm New Password	✓	✓	page 102
Admin Password Settings	Admin Password	Current Password		✓	page 103
		New Password <sup>*3</sup>		✓	page 103
		Confirm New Password		✓	page 103
Time Adjust Settings	Synchronization (Synchronisation)	Server Address <sup>*3</sup>		✓	page 104
		Synchronization Interval (Synchronisation Interval) <sup>*3</sup>		✓	page 104
	Time Zone	Time Zone <sup>*3</sup>		✓	page 104
	Daylight Saving Time (Summer Time)	Enable DST (Enable Summer Time) <sup>*3</sup>		✓	page 105
		DST Offset (Summer Time Offset) <sup>*3</sup>		✓	page 105
		Start Day and Time of DST (Start Day and Time of Summer Time)	Month <sup>*3</sup>	✓	page 105
		Day of Week		✓	page 105
		Time <sup>*3</sup>		✓	page 106
	End Day and Time of DST (End Day and Time of Summer Time)	Month <sup>*3</sup>		✓	page 106
		Day of Week		✓	page 107
		Time <sup>*3</sup>		✓	page 108
Advanced Settings	Soft Key during IDLE Status (For KX-HDV130/KX-HDV230)	Soft Key A (Left) <sup>*3</sup>		✓	page 108
		Soft Key B (Center) <sup>*3</sup>		✓	page 109
		Soft Key C (Right) <sup>*3</sup>		✓	page 109
	IP Phone	Enable Admin Ability <sup>*3</sup>		✓	page 109
		Enable IP Phone Lock <sup>*3</sup>		✓	page 109
		Password for Unlocking <sup>*3</sup>		✓	page 110
		Missed Call Notification	—	—	—
		- Message <sup>*2</sup>		✓	page 110

#### 4.1 Web User Interface Setting List

Menu Item	Section Title	Setting	Access Level <sup>1</sup>		Ref.
			U	A	
		- LED <sup>2</sup>		✓	page 110
		Voice Message Notification	—	—	—
		- Message <sup>2</sup>		✓	page 110
		- LED <sup>2</sup>		✓	page 111
		- Alarm <sup>2</sup>		✓	page 111
		Network Camera Notification (For KX-HDV430)	—	—	—
		- Message <sup>2</sup>		✓	page 111
		- LED <sup>2</sup>		✓	page 111
		- Alarm <sup>2</sup>		✓	page 112
Import Display File (For KX-HDV330/KX-HDV430)	Import Display File	File Name	✓	✓	page 112
Wait Time (For KX-HDV330/KX-HDV430)	Wait Time	Wait Time <sup>2</sup>	✓	✓	page 112
Communication Camera (For KX-HDV430)	Communication Camera Settings [No. 1]–[No. 16]	Phone Number <sup>2</sup>		✓	page 113
		Name <sup>3</sup>		✓	page 114
		Ringtone [ 1 - 32 ] <sup>2</sup>		✓	page 114

<sup>1</sup> The access levels are abbreviated as follows:

U: User; A: Administrator

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

<sup>2</sup> This setting can also be configured through other programming methods (phone user interface programming or configuration file programming).

<sup>3</sup> This setting can also be configured through configuration file programming.

#### VoIP

Menu Item	Section Title	Setting	Access Level <sup>1</sup>		Ref.
			U	A	
SIP Settings	User Agent	User Agent <sup>2</sup>		✓	page 114
	NAT Identity	Enable Rport (RFC 3581) <sup>2</sup>		✓	page 115
		Enable Port Punching for SIP <sup>2</sup>		✓	page 115
		Enable Port Punching for RTP <sup>2</sup>		✓	page 115
SIP Settings [Line 1]–[Line n]	Basic	Phone Number <sup>2</sup>		✓	page 116

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

## 4.1 Web User Interface Setting List

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

<sup>1</sup> The access levels are abbreviated as follows:

U: User; A: Administrator

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

<sup>\*2</sup> This setting can also be configured through configuration file programming.

## Telephone

Menu Item	Section Title	Setting	Access Level <sup>*1</sup>		Ref.	
			U	A		
Call Control	Call Control	Send SUBSCRIBE to Voice Mail Server <sup>*2</sup>		✓	page 132	
		Conference Server URI <sup>*2</sup>		✓	page 132	
		First-digit Timeout <sup>*2</sup>		✓	page 132	
		Inter-digit Timeout <sup>*2</sup>		✓	page 132	
		Timer for Dial Plan <sup>*2</sup>		✓	page 132	
		Enable # Key as delimiter <sup>*2</sup>		✓	page 133	
		International Call Prefix <sup>*2</sup>		✓	page 133	
		Country Calling Code <sup>*2</sup>		✓	page 133	
		National Access Code <sup>*2</sup>		✓	page 133	
		Default Line for Outgoing <sup>*2</sup>	✓	✓	page 133	
		Call Park Number <sup>*2</sup>		✓	page 134	
		Enable Call Park Key <sup>*2</sup>		✓	page 134	
		Park Retrieve Number <sup>*2</sup>		✓	page 134	
		Park Retrieve Soft Key <sup>*2</sup>		✓	page 135	
Call Control [Line 1]–[Line n] <sup>*5</sup>	Call Features	Directed Call Pickup <sup>*2</sup>		✓	page 135	
		Group Call Pickup <sup>*2</sup>		✓	page 135	
		Barge in <sup>*2</sup>		✓	page 135	
		Private Hold <sup>*2</sup>		✓	page 135	
		Emergency Call Phone Numbers	1–5 <sup>*2</sup>		✓	page 136
		Call Rejection Phone Numbers	1–30 <sup>*4</sup>	✓	✓	page 136
		Display Name <sup>*2</sup>		✓	page 137	
		Voice Mail Access Number <sup>*2</sup>		✓	page 137	
		Enable Anonymous Call <sup>*4</sup>	✓	✓	page 137	
		Enable Block Anonymous Call <sup>*4</sup>	✓	✓	page 138	
		Enable Do Not Disturb <sup>*3</sup>	✓	✓	page 138	
		Enable Call Waiting <sup>*2</sup>		✓	page 138	
		Enable Call Forwarding Always <sup>*3</sup>		✓	✓	page 138

#### 4.1 Web User Interface Setting List

Menu Item	Section Title	Setting	Access Level <sup>1</sup>		Ref.
			U	A	
		Forwarding Number (Always) <sup>3</sup>	✓	✓	page 138
		Enable Call Forwarding Busy <sup>3</sup>	✓	✓	page 139
		Forwarding Number (Busy) <sup>3</sup>	✓	✓	page 139
		Enable Call Forwarding No Answer <sup>3</sup>	✓	✓	page 139
		Forwarding Number (No Answer) <sup>3</sup>	✓	✓	page 139
		Ring Counts (No Answer) <sup>3</sup>	✓	✓	page 139
		Enable Shared Call <sup>2</sup>		✓	page 139
		Enable Key Synchronization (Enable Key Synchronisation) <sup>2</sup>		✓	page 140
		Enable Call Park Notification <sup>2</sup>		✓	page 140
		Enable Click to Call <sup>2</sup>		✓	page 140
		Enable Executive Setting <sup>2</sup> (For KX-HDV330/KX-HDV430)		✓	page 140
		Enable Assistant Setting <sup>2</sup> (For KX-HDV330/KX-HDV430)		✓	page 141
		MoH Server URI <sup>2</sup>		✓	page 141
		Resource List URI <sup>2</sup>		✓	page 141
	Dial Plan	Dial Plan (max 1000 columns) <sup>2</sup>		✓	page 141
		Call Even If Dial Plan Does Not Match <sup>2</sup>		✓	page 141
Hotline Settings	Hotline	Enable <sup>2</sup>		✓	page 142
		Hotline Number <sup>2</sup>	✓	✓	page 143
		Hotline Delay <sup>2</sup>		✓	page 143
Program Key (For KX-HDV130)	Program Key	No. 1-2 <sup>4</sup>	—	—	—
		Type <sup>4</sup>	✓	✓	page 143
		Parameter <sup>4</sup>	✓	✓	page 144

Menu Item	Section Title	Setting	Access Level <sup>*1</sup>		Ref.
			U	A	
Flexible Key Settings (For KX-HDV230/ KX-HDV330/ KX-HDV430)	Flexible Key Settings	No. 1–24 <sup>*4</sup>	—	—	—
		Type <sup>*4</sup>	✓	✓	page 144
		Parameter <sup>*4</sup>	✓	✓	page 145
		Label Name <sup>*4</sup>	✓	✓	page 145
Tone Settings	Dial Tone	Tone Frequencies	✓	✓	page 146
		Tone Timings <sup>*2</sup>	✓	✓	page 147
	Busy Tone	Tone Frequencies	✓	✓	page 147
		Tone Timings <sup>*2</sup>	✓	✓	page 147
	Ringing Tone	Tone Frequencies	✓	✓	page 148
		Tone Timings <sup>*2</sup>	✓	✓	page 148
	Stutter Tone	Tone Frequencies	✓	✓	page 148
		Tone Timings <sup>*2</sup>	✓	✓	page 149
	Reorder Tone	Tone Frequencies	✓	✓	page 149
		Tone Timings <sup>*2</sup>	✓	✓	page 149
Import Phonebook	Import Phonebook	File Name	✓	✓	page 150
Export Phonebook	Export Phonebook	—	✓	✓	page 151
Video Call Settings (For KX-HDV430)	Default Call Mode	Default Call Mode <sup>*4</sup>	✓	✓	page 153
	Screen Mode	Screen Mode <sup>*4</sup>	✓	✓	page 153
	Send Image	Send Image at Start <sup>*4</sup>	✓	✓	page 154
	Rate Settings	Bit Rate <sup>*4</sup>	✓	✓	page 154
		Bit Rate Use <sup>*4</sup>	✓	✓	page 154
		Frame Rate <sup>*4</sup>	✓	✓	page 154
		Image Size <sup>*4</sup>	✓	✓	page 155
DSS Console (For KX-HDV230/ KX-HDV330/ KX-HDV430)	DSS 1-5 Key	No. 1–200 <sup>*4,6</sup>	—	—	—
		Type <sup>*4</sup>	✓	✓	page 143

#### 4.1 Web User Interface Setting List

Menu Item	Section Title	Setting	Access Level <sup>1</sup>		Ref.
			U	A	
		Parameter <sup>4</sup>	✓	✓	page 144
		Label Name <sup>4</sup>	✓	✓	page 156

<sup>1</sup> The access levels are abbreviated as follows:

U: User; A: Administrator

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

<sup>2</sup> This setting can also be configured through configuration file programming.

<sup>3</sup> This setting can also be configured through phone user interface programming.

<sup>4</sup> This setting can also be configured through other programming methods (phone user interface programming or configuration file programming).

<sup>5</sup> The number of lines available varies depending on the phone being used.

<sup>6</sup> 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 <sup>1</sup>		Ref.
			U	A	
Provisioning Maintenance	Provisioning Maintenance	Standard File URL <sup>2</sup>		✓	page 157
		Product File URL <sup>2</sup>		✓	page 157
		Master File URL <sup>2</sup>		✓	page 158
		Cyclic Auto Resync <sup>2</sup>		✓	page 158
		Resync Interval <sup>2</sup>		✓	page 158
		Time Resync <sup>2</sup>		✓	page 158
		Header Value for Resync Event <sup>2</sup>		✓	page 158
Firmware Maintenance	Firmware Maintenance	Enable Firmware Update <sup>2</sup>		✓	page 159
		Firmware File URL <sup>2</sup>		✓	page 159
		Firmware Version <sup>2</sup> (For KX-HDV330/KX-HDV430)		✓	page 160
Upgrade Firmware (For KX-HDV130/ KX-HDV230)	Upgrade Firmware	Firmware File URL (For KX-HDV130) File Name (For KX-HDV230)		✓	page 160
Export Logging File	Export Logging File	Logging File Type		✓	page 161
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 162

Menu Item	Section Title	Setting	Access Level <sup>*1</sup>		Ref.
			U	A	
Restart	Restart	Click [Restart] to proceed. Restarting will take a few moments.		✓	page 162

<sup>\*1</sup> The access levels are abbreviated as follows:

U: User; A: Administrator

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

<sup>\*2</sup> 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.

Version Information	
Model	KX-HDV430
IPL Version	00.004 [SIP: 2.00]
Firmware Version	03.000

#### 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	<ul style="list-style-type: none"> <li>• Bank1</li> <li>• Bank2</li> </ul>

##### 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).
-------------	---

#### 4.2.2 Network Status

<b>Value Range</b>	IPL version ("nn.nnn" [n=0–9]) SIP software version ("[SIP: n.nn]" [n=0–9])
--------------------	--

#### Firmware Version

<b>Description</b>	Indicates the version of the firmware that is currently installed on the unit (reference only).
<b>Value Range</b>	Firmware version ("nn.nnn" [n=0–9]) (For KX-HDV130/ KX-HDV330/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      **Status**      Network | System | VoIP | Telephone | Maintenance

Logout      Web Port Close

Status

Version Information

**Network Status**

VolP 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

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

#### Ethernet Link Status

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

#### IP Address Mode

<b>Description</b>	Indicates the current IP Address Mode.
--------------------	--

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• IPv4</li> <li>• IPv6</li> <li>• IPv4&amp;IPv6</li> </ul>
--------------------	---

## 4.2.2.2 IPv4

### Connection Mode

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

### IP Address

<b>Description</b>	Indicates the currently assigned IP address of the unit (reference only).
<b>Value Range</b>	IP address

### Subnet Mask

<b>Description</b>	Indicates the specified subnet mask for the unit (reference only).
<b>Value Range</b>	Subnet mask

### Default Gateway

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

### DNS1

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

#### 4.2.2 Network Status

---

### DNS2

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

### 4.2.2.3 IPv6

#### Connection Mode

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

#### IP Address

<b>Description</b>	Indicates the currently assigned IP address of the unit (reference only).
<b>Value Range</b>	IP address

#### Prefix

<b>Description</b>	Indicates the prefix for IPv6.
<b>Value Range</b>	0–128

#### Default Gateway

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

### DNS1

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

## DNS2

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

## 4.2.2.4 VLAN

### Setting Mode

<b>Description</b>	Indicates the specified VLAN feature (reference only).
<b>Value Range</b>	<ul style="list-style-type: none"> <li>Disable</li> <li>LLDP</li> <li>CDP</li> <li>LLDP/CDP</li> <li>Manual</li> </ul>

### LAN Port VLAN ID

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

### LAN Port VLAN Priority

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

### PC Port VLAN ID

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

### PC Port VLAN Priority

<b>Description</b>	Indicates the priority number (reference only) for the PC.
<b>Value Range</b>	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.

## 4.3 Network

The screenshot shows the Panasonic KX-HDV430 web interface. The top navigation bar includes tabs for Status, Network, System, VoIP, Telephone, and Maintenance. The 'Status' tab is currently selected. On the left sidebar under the 'Status' section, there are links for Version Information, Network Status, and VoIP Status, with 'VoIP Status' highlighted by a red box. The main content area is titled 'VoIP Status' and contains a table with three rows labeled 1, 2, and 3. The columns are Line No., Phone Number, and VoIP Status. A 'Logout' button is at the top left of the sidebar, and a 'Refresh' button is at the top right of the main content area.

### 4.2.3.1 VoIP Status

#### Line No.(1–n)<sup>1</sup>

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

<sup>1</sup> The number of lines available varies depending on the phone being used.

#### Phone Number

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

#### VoIP Status

Description	Indicates the current VoIP status of each line (reference only).
Value Range	<ul style="list-style-type: none"><li>Registered: The unit has been registered to the SIP server, and the line can be used.</li><li>Registering: The unit is being registered to the SIP server, and the line cannot be used.</li><li>Blank: The line has not been leased, the unit has not been configured yet, or a SIP authentication failure has occurred.</li></ul> <p><b>Note</b></p> <ul style="list-style-type: none"><li>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.</li></ul>

## 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**).

### Panasonic

### 4.3.1.1 IP Addressing Mode

#### IP Addressing Mode

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

### 4.3.1.2 IPv4

#### Connection Mode

<b>Description</b>	Selects the IP address setting mode for IPv4.
--------------------	---

#### 4.3.1 Basic Network Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li>DHCP</li><li>Static</li></ul>
<b>Default Value</b>	DHCP
<b>Configuration File Reference</b>	CONNECTION_TYPE

#### DHCP Host Name

<b>Description</b>	Specifies the host name to option12 in DHCPv4 or option15 in DHCPv6.
<b>Note</b>	<ul style="list-style-type: none"><li>This setting is available only when <b>[Connection Mode]</b> is set to <b>[DHCP]</b>.</li></ul>
<b>Value Range</b>	Max. 64 characters
<b>Note</b>	<ul style="list-style-type: none"><li>If "{MODEL}" is included in this parameter, it will be replaced with the unit's model name.</li></ul>
<b>Default Value</b>	{MODEL}
<b>Configuration File Reference</b>	DHCP_HOST_NAME

#### IP Address

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

#### Subnet Mask

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

## Default Gateway

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

## Auto DNS via DHCP

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

## DNS1

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

## DNS2

<b>Description</b>	Specifies the IP address of secondary DNS server for IPv4.
<b>Value Range</b>	Max. 15 characters n.n.n.n [n=0–255]
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	USER_DNS2_ADDR

## 4.3.1.3 IPv6

### Connection Mode

<b>Description</b>	Selects the IP address setting mode for IPv6.
--------------------	---

#### 4.3.1 Basic Network Settings

---

<b>Value Range</b>	<ul style="list-style-type: none"><li>DHCP</li><li>Static</li><li>Stateless Autoconfiguration</li></ul>
<b>Default Value</b>	DHCP
<b>Configuration File Reference</b>	CONNECTION_TYPE_IPV6

### IP Address

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

### Prefix

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

### Default Gateway

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

## Auto DNS via DHCP

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

## DNS1

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

## DNS2

<b>Description</b>	Specifies the IP address of secondary DNS server for IPv6.
<b>Value Range</b>	Max. 39 characters n:n:n:n:n:n:n [n=0xFFFF, abbreviation available]
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	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.

#### 4.3.2 Ethernet Port 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  
Xtended 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	<input checked="" type="radio"/> Yes <input type="radio"/> No
Packet Interval	30 seconds [1-3600]
PC	VLAN ID 0 [0-4094]
	Priority 0

**CDP**

Enable CDP	<input type="radio"/> Yes <input checked="" type="radio"/> No
Packet Interval	30 seconds [1-3600]

**VLAN**

Enable VLAN	<input type="radio"/> Yes <input checked="" type="radio"/> No
-------------	---

##### 4.3.2.1 Link Speed/Duplex Mode

###### LAN Port

<b>Description</b>	Selects the connection mode (link speed and duplex mode) of the LAN port.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Auto Negotiation</li><li>• 100Mbps/Full Duplex</li><li>• 100Mbps/Half Duplex</li><li>• 10Mbps/Full Duplex</li><li>• 10Mbps/Half Duplex</li></ul>
<b>Default Value</b>	Auto Negotiation
<b>Configuration File Reference</b>	PHY_MODE_LAN

###### PC Port

<b>Description</b>	Selects the connection mode (link speed and duplex mode) of the PC port.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Auto Negotiation</li><li>• 100Mbps/Full Duplex</li><li>• 100Mbps/Half Duplex</li><li>• 10Mbps/Full Duplex</li><li>• 10Mbps/Half Duplex</li></ul>
<b>Default Value</b>	Auto Negotiation
<b>Configuration File Reference</b>	PHY_MODE_PC

### 4.3.2.2 LLDP

#### Enable LLDP

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

#### Packet Interval

<b>Description</b>	Specifies the interval, in seconds, between sending each LLDP frame.
<b>Value Range</b>	1–3600
<b>Default Value</b>	30
<b>Configuration File Reference</b>	LLDP_INTERVAL

#### PC VLAN ID

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

#### PC Priority

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

### 4.3.2.3 CDP

#### Enable CDP

<b>Description</b>	Selects whether to enable the CDP feature.
--------------------	--

#### 4.3.2 Ethernet Port Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	CDP_ENABLE

#### Packet Interval

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

### 4.3.2.4 VLAN

#### Enable VLAN

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

#### IP Phone VLAN ID

<b>Description</b>	Specifies the VLAN ID for the IP Phone.
<b>Value Range</b>	0-4094
<b>Default Value</b>	2
<b>Configuration File Reference</b>	VLAN_ID_IP_PHONE

#### IP Phone Priority

<b>Description</b>	Selects the priority for the IP Phone.
<b>Value Range</b>	0-7
<b>Default Value</b>	7
<b>Configuration File Reference</b>	VLAN_PRI_IP_PHONE

**PC VLAN ID**

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

**PC Priority**

<b>Description</b>	Selects the priority for the PC.
<b>Value Range</b>	0–7
<b>Default Value</b>	0
<b>Configuration File Reference</b>	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
- Xtended Service Settings
- Line 1-4
- Line 5-8
- Line 9-12
- Line 13-16

**HTTP Client Settings**

HTTP Version	<input checked="" type="radio"/> HTTP/1.0 <input type="radio"/> HTTP/1.1
HTTP User Agent	Panasonic_{MODEL}/{fwver} ({mac})
Authentication ID	[ ]
Authentication Password	[*****]
<b>Proxy Server</b>	
Enable Proxy	<input type="radio"/> Yes <input checked="" type="radio"/> No
Proxy Server Address	[ ]
Proxy Server Port	8080 [1-65535]

Save   Cancel

### 4.3.3.1 HTTP Client

**HTTP Version**

<b>Description</b>	Selects which version of the HTTP protocol to use for HTTP communication.
--------------------	---

#### 4.3.3 HTTP Client Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li>• HTTP/1.0</li><li>• HTTP/1.1</li></ul>
<b>Note</b>	<ul style="list-style-type: none"><li>• For this unit, it is strongly recommended that you select [<b>HTTP/1.0</b>]. However, if the HTTP server does not function well with HTTP/1.0, try changing the setting [<b>HTTP/1.1</b>].</li></ul>
<b>Default Value</b>	HTTP/1.0
<b>Configuration File Reference</b>	HTTP_VER

#### HTTP User Agent

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

#### Authentication ID

<b>Description</b>	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.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	HTTP_AUTH_ID

#### Authentication Password

<b>Description</b>	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.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	HTTP_AUTH_PASS

### 4.3.3.2 Proxy Server

#### Enable Proxy

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

#### Proxy Server Address

<b>Description</b>	Specifies the IP address or FQDN of the proxy server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	HTTP_PROXY_ADDR

#### Proxy Server Port

<b>Description</b>	Specifies the port number of the proxy server.
<b>Value Range</b>	1–65535
<b>Default Value</b>	8080
<b>Configuration File Reference</b>	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**

STUN	
Server Address	<input type="text"/>
Port	3478 [1-65535]
Binding Interval	300 seconds [60-86400]
<b>Save</b>   <b>Cancel</b>	

#### 4.3.4.1 STUN

STUN: Simple Traversal of UDP through NATs

#### Server Address

<b>Description</b>	Specifies the host name or IP address of the STUN server for the CPE to send Binding Requests.
--------------------	--

#### 4.3.5 Multicast Paging Settings

<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	STUN_SERV_ADDR

#### Port

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

#### Binding Interval

<b>Description</b>	Specifies the interval of the sending binding request.
<b>Value Range</b>	60–86400
<b>Default Value</b>	300
<b>Configuration File Reference</b>	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

**Multicast Paging Settings**

**Multicast Paging**

	IPv4 Address	[224.0.0.0-239.255.255.255]
Group 5	IPv6 Address	[FF00::/8]
	Port	0 [0-65535, 0:Disable]
	Label	
	Enable Transmission	<input type="radio"/> Yes <input checked="" type="radio"/> 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	<input type="radio"/> Yes <input checked="" type="radio"/> No

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
- XML Application Settings
- ACD Settings
- Call Center Settings

### 4.3.5.1 Multicast Paging

#### IPv4 Address (Group 1–5)

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

#### IPv6 Address (Group 1–5)

<b>Description</b>	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)}
<b>Value Range</b>	FF00::/8
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	MPAGE_IPV6_ADDRm

#### Port (Group 1–5)

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

#### Priority (Group 1–3)

<b>Description</b>	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.
<b>Value Range</b>	4, 5
<b>Default Value</b>	5
<b>Configuration File Reference</b>	MPAGE_PRIORITYm

#### Label (Group 1–5)

<b>Description</b>	Specifies a label for each channel group.
<b>Value Range</b>	Max. 24 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	MPAGE_LABELm

#### Enable Transmission (Group 1–5)

<b>Description</b>	Selects the sending multi-cast paging.
--------------------	--

#### 4.3.6 LDAP Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	MPAGE_SEND_ENABLEm

### 4.3.6 LDAP Settings

This screen allows you to change the LDAP 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**
- Xtended 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**

LDAP	
Enable LDAP	<input type="radio"/> Yes <input checked="" type="radio"/> No
Server Address	<input type="text"/>
Port	389 [1-65535]
User ID	<input type="text"/>
Password	<input type="password"/> *****
Max Hits	20 [20-500]
Name Filter	<input type="text"/> ( (cn=%)(sn=%))
Number Filter	<input type="text"/> ( (telephoneNumber=%)(mobile=%)(homePh
Name Attributes	<input type="text"/> cn,sn
Number Attributes	<input type="text"/> telephoneNumber,mobile,homePhone
Distinguished Name(Base DN)	<input type="text"/>
Enable DNS SRV lookup	<input type="radio"/> Yes <input checked="" type="radio"/> No

Save      Cancel

#### 4.3.6.1 LDAP

##### Enable LDAP

<b>Description</b>	Selects whether to enable or disable the LDAP service.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	LDAP_ENABLE

##### Server Address

<b>Description</b>	Specifies the server host of LDAP.
--------------------	------------------------------------

<b>Value Range</b>	Max. 256 characters
<b>Note</b>	<ul style="list-style-type: none"> <li>The LDAP server address should start with "ldap://" or "ldaps://".</li> </ul>
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	LDAP_SERVER

## Port

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

## User ID

<b>Description</b>	Specifies the authentication ID required to access the LDAP server.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	LDAP_USERID

## Password

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

## Max Hits

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

## Name Filter

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

#### 4.3.7 Xtended Service Settings

---

##### 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	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
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.

**Xtended Service**

Enable Xtended Service	<input type="radio"/> Yes <input checked="" type="radio"/> No
Server Address	<input type="text"/>
Port	80 [1-65535]
Protocol	<input checked="" type="radio"/> HTTP <input type="radio"/> HTTPS
SIP Credentials	<input type="radio"/> Yes <input checked="" type="radio"/> No

Save Cancel

### 4.3.7.1 Xtended Service

#### Enable Xtended Service

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

#### Server Address

<b>Description</b>	Specifies the IP address or FQDN of the Xsi server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	XSI_SERVER

#### Port

<b>Description</b>	Specifies the port of the Xsi server.
<b>Value Range</b>	1–65535
<b>Default Value</b>	80
<b>Configuration File Reference</b>	XSI_SERVER_PORT

#### Protocol

<b>Description</b>	Selects the type of the Xsi server.
<b>Value Range</b>	HTTP, HTTPS
<b>Default Value</b>	HTTP
<b>Configuration File Reference</b>	XSI_SERVER_TYPE

#### 4.3.7 Xtended Service Settings

### SIP Credentials

Description	Selects whether to enable or disable the XSI SIP Credentials feature.
Value Range	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
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.

#### Panasonic

KX-HDV430

Status | Network | System | VoIP | Telephone | Maintenance

Logout

Web Port Close

Network

- Basic Network Settings
- Ethernet Port Settings
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- Line 1-4
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- Line 9-12
- Line 13-16
- UC Settings

Xtended Service Settings [Line 1 - 4]

Xtended Service Settings [Line 1 - 4]		
Line 1	User ID	[Input Field]
	Password	[Input Field]
	Enable Phonebook	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Phonebook Type	Group
	Enable Call Log	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Enable Visual Voice Mail	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 2	User ID	[Input Field]
	Password	[Input Field]
	Enable Phonebook	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Phonebook Type	Group
	Enable Call Log	<input type="radio"/> Yes <input checked="" type="radio"/> No

#### Note

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

<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	XSI_PASSWORD_n

## Enable Phonebook

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

## Phonebook Type

<b>Description</b>	Selects the type of Xsi phonebook.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Group</li> <li>• GroupCommon</li> <li>• Enterprise</li> <li>• EnterpriseCommon</li> <li>• Personal</li> </ul>
<b>Default Value</b>	Group
<b>Configuration File Reference</b>	XSI_PHONEBOOK_TYPE_n

## Group

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

## GroupCommon

<b>Description</b>	Specifies whether to enable or disable the "GroupCommon" type for Xsi phonebooks.
--------------------	---

#### 4.3.7 Xtended Service Settings

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

### Enterprise

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

### EnterpriseCommon

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

### Personal

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

<b>Configuration File Reference</b>	BSD_PERSONAL_ENABLE_n
-------------------------------------	-----------------------

### Enable Call Log

<b>Description</b>	Selects whether to enable or disable the Xsi call log service.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	XSI_CALLLOG_ENABLE_n

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

<b>Description</b>	Selects whether to enable or disable the Visual Voice Mail feature of the selected line.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	XSI_VISUAL_VM_ENABLE_n (For KX-HDV330/KX-HDV430)

## 4.3.8 UC Settings

This screen allows you to change the UC Settings.

The screenshot shows the 'UC Settings' page under the 'Network' tab. On the left sidebar, 'UC Settings' is highlighted with a red box. The main area displays the 'Presence Feature' settings:

Presence Feature	
Enable UC	<input type="radio"/> Yes <input checked="" type="radio"/> No
Server Address	<input type="text"/>
Local XMPP Port	5222 [1-65535]
User ID	<input type="text"/>
Password	<input type="password"/> .....

At the bottom are 'Save' and 'Cancel' buttons.

### 4.3.8.1 Presence Feature

#### Enable UC

<b>Description</b>	Selects whether to enable the UC service.
--------------------	---

#### 4.3.9 XML Application Settings

---

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

#### Server Address

<b>Description</b>	Specifies the IP address or FQDN of the XMPP server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	XMPP_SERVER

#### Local XMPP Port

<b>Description</b>	Specifies the local XMPP port.
<b>Value Range</b>	1–65535
<b>Default Value</b>	5222
<b>Configuration File Reference</b>	XMPP_PORT

#### User ID

<b>Description</b>	Specifies the authentication ID required to access the UC server.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	UC_USERID

#### Password

<b>Description</b>	Specifies the authentication password required to access the UC server.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	UC_PASSWORD

## 4.3.9 XML Application Settings

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

**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
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- Xtended Service Settings
- Line 1-4
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- Line 13-16
- UC Settings
- XML Application Settings**

**XML Application Settings**

<b>XML Application</b>	
Enable XMLAPP	<input type="radio"/> Yes <input checked="" type="radio"/> No
User ID	<input type="text"/>
Password	<input type="password"/> ······
Local XML Port	6666 [1-65535]
Bootup URL	<input type="text"/>
Initial URL	<input type="text"/>
Incoming Call URL	<input type="text"/>
Talking URL	<input type="text"/>
Making Call URL	<input type="text"/>
Call Log URL	<input type="text"/>
Idling URL	<input type="text"/>
Enable FF Key	<input type="radio"/> Yes <input checked="" type="radio"/> No

## 4.3.9.1 XML Application

### Enable XMLAPP

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

### User ID

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

### Password

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

#### 4.3.9 XML Application Settings

---

##### Local XML Port

Description	Specifies the local HTTP port for XML application.
Value Range	1–65535
Default Value	6666
Configuration File Reference	XML_HTTPPD_PORT

##### Bootup URL

Description	Specifies the URL that is accessed when the unit starts up, to check for XML data.
Value Range	Max. 256 characters
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. 256 characters
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. 256 characters
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. 256 characters
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. 256 characters
Default Value	Not stored.
Configuration File Reference	XMLAPP_MAKECALL_URL

## Call Log URL

<b>Description</b>	Specifies the URL that is accessed when the call log is accessed, to check for XML data.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	XMLAPP_CALLLOG_URL

## Idling URL

<b>Description</b>	Specifies the URL that is accessed when the unit is idle, to check for XML data.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	XMLAPP_IDLING_URL

## Enable FF Key

<b>Description</b>	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	XMLAPP_FFKEY_ENABLE

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

### Soft Key A (Left)

<b>Description</b>	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed during standby mode.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	XML_INITIATE_KEY_SOFT1 (For KX-HDV130/KX-HDV230)

### Soft Key B (Center)

<b>Description</b>	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed during standby mode.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	XML_INITIATE_KEY_SOFT2 (For KX-HDV130/KX-HDV230)

#### 4.3.9 XML Application Settings

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##### Soft Key C (Right)

<b>Description</b>	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed during standby mode.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	XML_INITIATE_KEY_SOFT3 (For KX-HDV130/KX-HDV230)

#### 4.3.9.3 XML Phonebook

##### LDAP URL

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

##### User ID

<b>Description</b>	Specifies the authentication ID required to access the LDAP server.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	XMLAPP_LDAP_USERID

##### Password

<b>Description</b>	Specifies the authentication password used to access the LDAP server.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	XMLAPP_LDAP_USERPASS

##### Max Hits

<b>Description</b>	Specifies the maximum number of search results to be returned by the LDAP server.
<b>Value Range</b>	20–500
<b>Default Value</b>	20
<b>Configuration File Reference</b>	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.

**Panasonic**

ACD Settings		
Line 1	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 2	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 3	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 4	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 5	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 6	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 7	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 8	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 9	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 10	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 11	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 12	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 13	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 14	Enable ACD	<input type="radio"/> Yes <input checked="" type="radio"/> No

### Enable ACD

Description	Selects whether to enable the ACD.
Value Range	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
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]

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

**Call Center Settings [Line 1 - 4]**

Call Center Settings [Line 1 - 4]		
Line 1	Enable Call Center	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Disposition Code	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Customer Originated Trace	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Hoteling Event	<input type="radio"/> Yes <input checked="" type="radio"/> No
	- User ID	[Redacted]
	- Password	*****
Line 2	Status Event	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Enable Call Center	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Disposition Code	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Customer Originated Trace	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Hoteling Event	<input type="radio"/> Yes <input checked="" type="radio"/> No
	- User ID	[Redacted]
Line 3	- Password	*****

#### Enable Call Center

<b>Description</b>	Selects whether to add menu items for Call Center.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	CALL_CENTER_ENABLE_n

#### Disposition Code

<b>Description</b>	Selects whether to enable the Disposition Code.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	CC_DISPOSITION_CODE_ENABLE_n

#### Customer Originated Trace

<b>Description</b>	Selects whether to enable the Customer Originated Trace.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	CC_CUSTOMER_ORG_TRACE_ENABLE_n

## Hoteling Event

<b>Description</b>	Selects whether to enable the Hoteling Event.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	CC_HOTELING_EVENT_n

## - User ID

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

## - Password

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

## Status Event

<b>Description</b>	Selects whether to enable the Status Event.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	CC_STATUS_EVENT_ENABLE_n

#### 4.3.12 TWAMP Settings

### 4.3.12 TWAMP Settings

Panasonic

KX-HDV430 Status Network System VoIP Telephone Maintenance

Logout Web Port Close

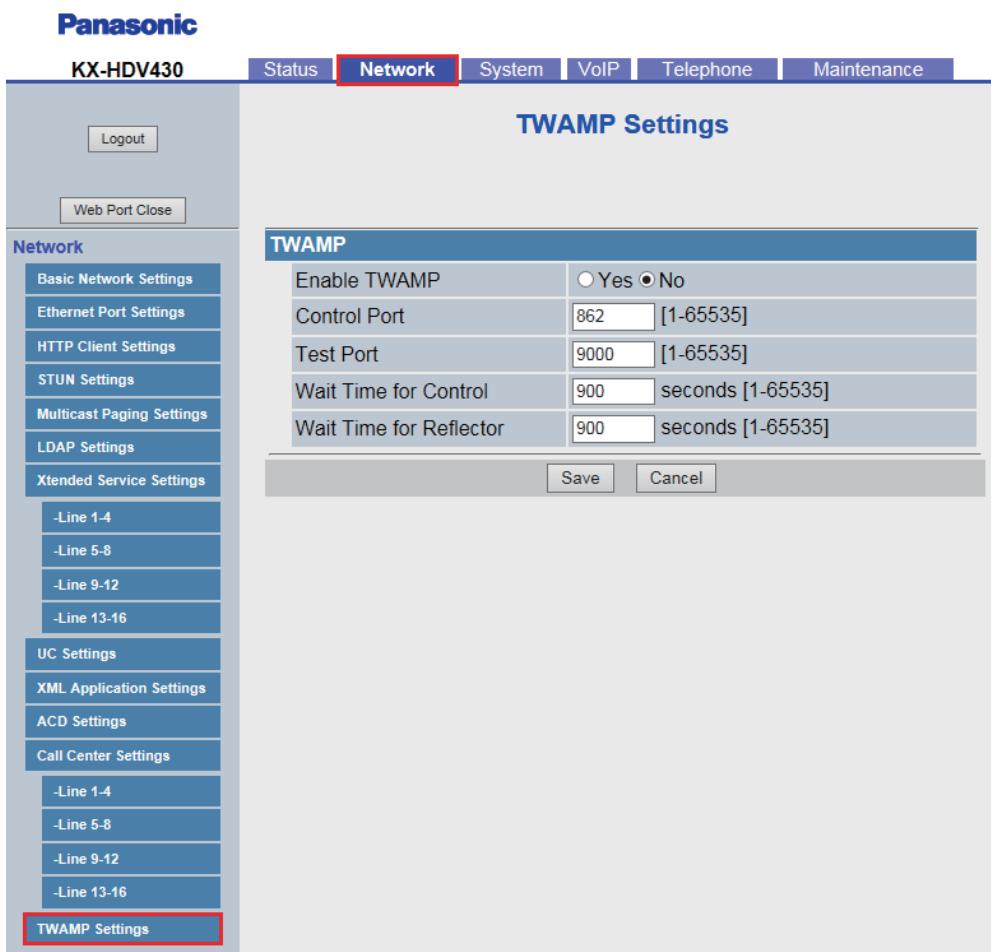
**Network**

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

TWAMP	
Enable TWAMP	<input type="radio"/> Yes <input checked="" type="radio"/> 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	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
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.
-------------	--

<b>Value Range</b>	1-65535
<b>Default Value</b>	9000
<b>Configuration File Reference</b>	TWAMP_TEST_PORT

## Wait Time for Control

<b>Description</b>	Specifies the time, in seconds, for the TWAMP server to wait for incoming packets for maintaining the session.
<b>Value Range</b>	1-65535
<b>Default Value</b>	900
<b>Configuration File Reference</b>	TWAMP_SERVER_WAIT_TIME

## Wait Time for Reflector

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

The screenshot shows the Panasonic KX-HDV430 web interface. The top navigation bar includes links for Status, Network, System (which is highlighted in red), VoIP, Telephone, and Maintenance. On the left, a sidebar under the 'System' heading has 'Language Settings' selected (indicated by a red box). The main content area is titled 'Language Settings'. It contains two sections: 'Selectable Language' and 'Language Settings'. In the 'Selectable Language' section, there are two rows: 'IP Phone' with the value 'en,de,es,fr,it,sv,nl,pt,cs' and 'RFC3066 code', and 'Web Language' with the value 'en,de,es,fr,it,nl,pt,cs' and 'RFC3066 code'. In the 'Language Settings' section, there are also two rows: 'IP Phone' with a dropdown menu set to 'en' and 'Web Language' with a dropdown menu set to 'en'. At the bottom right of the main content area are 'Save' and 'Cancel' buttons.

##### 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")
-------------	--

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

## Web Language

<b>Description</b>	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

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

#### 4.4.1.2 Language Settings

##### IP Phone

<b>Description</b>	Selects the default language on the unit. You can select a language from the languages set in <b>IP Phone</b> in <b>4.4.1.1 Selectable Language</b> .
<b>Value Range</b>	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 <b>IP Phone</b> in <b>4.4.1.1 Selectable Language</b>
<b>Default Value</b>	en
<b>Configuration File Reference</b>	DEFAULT_LANGUAGE

##### Web Language

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

<b>Default Value</b>	en
<b>Configuration File Reference</b>	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 KX-HDV430 web interface. At the top, there's a navigation bar with tabs: Status, Network, **System**, VoIP, Telephone, and Maintenance. Below the navigation bar, there are two buttons: Logout and Web Port Close. On the left, there's a sidebar under the heading 'System' with several options: Language Settings, **User Password Settings** (which is highlighted with a red box), Admin Password Settings, Time Adjust Settings, Advanced Settings, Import Display File, - Wait Time, and Communication Camera. The main content area is titled 'User Password Settings'. It contains three input fields: 'Current Password', 'New Password' (with a note: 6-64 characters), and 'Confirm New Password'. At the bottom of this panel are 'Save' and 'Cancel' buttons.

### 4.4.2.1 User Password

#### Current Password

<b>Description</b>	Specifies the current password to use to authenticate the User account when logging in to the Web user interface.
<b>Value Range</b>	6–64 characters (except !, ", #, \$, %, &, ', (, ), @, *, +, ,, /, :, ;, <, =, >, ?, [, ], ^, ` , {,  , }, ~, \ and space)
<b>Default Value</b>	Not stored.

#### New Password

<b>Description</b>	Specifies the new password to use to authenticate the User account when logging in to the Web user interface.
--------------------	---

#### 4.4.3 Admin Password Settings

<b>Value Range</b>	6–64 characters (except !, ", #, \$, %, &, ', (, ), @, *, +, , /, :, ;, <, =, >, ?, [, ], ^, `), {,  , }, ~, \ and space)
<b>Note</b>	<ul style="list-style-type: none"><li>A hyphen (-) cannot be used as the first character.</li></ul>
<b>Default Value</b>	Not stored. <b>Note</b> <ul style="list-style-type: none"><li>When a user logs in to the Web user interface for the first time, after clicking <b>OK</b> on the authentication dialog box, the [<b>Initial User Password Settings</b>] screen is displayed automatically to make the user set a password.</li></ul>
<b>Configuration File Reference</b>	USER_PASS

#### Confirm New Password

<b>Description</b>	Specifies the same password that you entered in [ <b>New Password</b> ] for confirmation.
<b>Value Range</b>	6–64 characters (except !, ", #, \$, %, &, ', (, ), @, *, +, , /, :, ;, <, =, >, ?, [, ], ^, `), {,  , }, ~, \ and space)
<b>Default Value</b>	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 KX-HDV430 Web user interface. The top navigation bar includes links for Status, Network, System (which is highlighted in red), VoIP, Telephone, and Maintenance. On the left, a sidebar under the System category has links for Language Settings, User Password Settings (also highlighted in red), Admin Password Settings (highlighted in red), Time Adjust Settings, Advanced Settings, Import Display File, - Wait Time, and Communication Camera. The main content area is titled "Admin Password Settings". It contains a form with three input fields: "Current Password" (empty), "New Password" (empty with placeholder "6-64 characters"), and "Confirm New Password" (empty). Below the form are "Save" and "Cancel" buttons.

### 4.4.3.1 Admin Password

#### Current Password

<b>Description</b>	Specifies the current password to use to authenticate the Administrator account when logging in to the Web user interface.
<b>Value Range</b>	6–64 characters (except !, ", #, \$, %, &, ', (, ), @, *, +, ,, /, :, ;, <, =, >, ?, [, ], ^, ` , {,  , }, ~, \ and space)
<b>Default Value</b>	adminpass

#### New Password

<b>Description</b>	Specifies the new password to use to authenticate the Administrator account when logging in to the Web user interface.
<b>Value Range</b>	6–64 characters (except !, ", #, \$, %, &, ', (, ), @, *, +, ,, /, :, ;, <, =, >, ?, [, ], ^, ` , {,  , }, ~, \ and space)
<b>Note</b>	<ul style="list-style-type: none"> <li>A hyphen (-) cannot be used as the first character.</li> </ul>
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	ADMIN_PASS

#### Confirm New Password

<b>Description</b>	Specifies the same password that you entered in <b>[New Password]</b> for confirmation.
<b>Value Range</b>	6–64 characters (except !, ", #, \$, %, &, ', (, ), @, *, +, ,, /, :, ;, <, =, >, ?, [, ], ^, ` , {,  , }, ~, \ and space)
<b>Default Value</b>	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.

#### 4.4.4 Time Adjust Settings

The screenshot shows the Panasonic KX-HDV430 web interface. The top navigation bar includes links for Status, Network, System (which is highlighted in red), VoIP, Telephone, and Maintenance. A sidebar on the left lists various system settings under the 'System' category, with 'Time Adjust Settings' being the active item. The main content area is titled 'Time Adjust Settings' and contains several configuration sections: 'Synchronisation' (with fields for Server Address and Synchronization Interval), 'Time Zone' (with a dropdown for Time Zone), 'Summer Time' (with fields for Enable Summer Time and Summer Time Offset), and 'Start Day and Time of Summer Time' (with dropdowns for Month, Day of Week, and Time).

##### 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_INVL

##### 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	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
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	<ul style="list-style-type: none"> <li>• January</li> <li>• February</li> <li>• March</li> <li>• April</li> <li>• May</li> <li>• June</li> <li>• July</li> <li>• August</li> <li>• September</li> <li>• October</li> <li>• November</li> <li>• December</li> </ul>
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.
-------------	---

#### 4.4.4 Time Adjust Settings

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

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

#### Time

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

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

#### Month

<b>Description</b>	Selects the month in which DST (Summer Time) ends.
--------------------	--

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• January</li> <li>• February</li> <li>• March</li> <li>• April</li> <li>• May</li> <li>• June</li> <li>• July</li> <li>• August</li> <li>• September</li> <li>• October</li> <li>• November</li> <li>• December</li> </ul>
<b>Default Value</b>	November
<b>Configuration File Reference</b>	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]**.

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

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

#### 4.4.5 Advanced Settings

##### 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.

Panasonic

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

Logout      Web Port Close

**Advanced Settings**

**IP Phone**

Enable Admin Ability	<input checked="" type="radio"/> Yes <input type="radio"/> No
Enable IP Phone Lock	<input type="radio"/> Yes <input checked="" type="radio"/> No
Password for Unlocking	•••• [0000-9999]
Missed Call Notification	<input checked="" type="radio"/> Message <input type="radio"/> LED
Voice Message Notification	<input checked="" type="radio"/> Message <input type="radio"/> LED <input checked="" type="radio"/> Alarm
Network Camera Notification	<input checked="" type="radio"/> Message <input type="radio"/> LED <input checked="" type="radio"/> Alarm

Save      Cancel

The left sidebar menu shows the following options under the System category: Language Settings, User Password Settings, Admin Password Settings, Time Adjust Settings, **Advanced Settings** (which is highlighted with a red box), Import Display File, - Wait Time, and Communication Camera.

### 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	<ul style="list-style-type: none"><li>Phonebook</li><li>Menu</li><li>Outgoing Call Log</li><li>Incoming Call Log</li><li>Redial</li><li>Page (Used when performing Multicast Paging)</li></ul>
Default Value	Phonebook
Configuration File Reference	IDLE_SOFT_KEY_A (For KX-HDV130/KX-HDV230)

## Soft Key B (Center)

<b>Description</b>	Selects soft key (B) during IDLE state.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Phonebook</li> <li>• Menu</li> <li>• Outgoing Call Log</li> <li>• Incoming Call Log</li> <li>• Redial</li> <li>• Page (Used when performing Multicast Paging)</li> </ul>
<b>Default Value</b>	Menu
<b>Configuration File Reference</b>	IDLE_SOFT_KEY_B (For KX-HDV130/KX-HDV230)

## Soft Key C (Right)

<b>Description</b>	Selects soft key (C) during IDLE state.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Phonebook</li> <li>• Menu</li> <li>• Outgoing Call Log</li> <li>• Incoming Call Log</li> <li>• Redial</li> <li>• Page (Used when performing Multicast Paging)</li> </ul>
<b>Default Value</b>	Outgoing Call Log
<b>Configuration File Reference</b>	IDLE_SOFT_KEY_C (For KX-HDV130/KX-HDV230)

## 4.4.5.2 IP Phone

### Enable Admin Ability

<b>Description</b>	Selects whether to enable admin rights for the unit.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Default Value</b>	Yes
<b>Configuration File Reference</b>	ADMIN_ABILITY_ENABLE

### Enable IP Phone Lock

<b>Description</b>	Selects whether to enable locking the unit.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	SYS_LOCK_ENABLE

#### 4.4.5 Advanced Settings

### 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.  <b>Note</b> <ul style="list-style-type: none"><li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li></ul>
Value Range	<ul style="list-style-type: none"><li>Yes</li><li>No</li></ul>
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.  <b>Note</b> <ul style="list-style-type: none"><li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li></ul>
Value Range	<ul style="list-style-type: none"><li>Yes</li><li>No</li></ul>
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.  <b>Note</b> <ul style="list-style-type: none"><li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li></ul>
Value Range	<ul style="list-style-type: none"><li>Yes</li><li>No</li></ul>
Default Value	Yes
Configuration File Reference	NOTIFY_VOICEMAIL_ENABLE

## Voice Message Notification - LED

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

## Voice Message Notification - Alarm

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

## Network Camera Notification - Message (For KX-HDV430)

<b>Description</b>	Selects whether to display the Network Camera message icon on the screen.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li>Yes</li> <li>No</li> </ul>
<b>Default Value</b>	Yes
<b>Configuration File Reference</b>	NOTIFY_NETWORKCAMERA_ENABLE (For KX-HDV430)

## Network Camera Notification - LED (For KX-HDV430)

<b>Description</b>	Selects whether the LED is used to indicate a Network Camera alert.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li>Yes</li> <li>No</li> </ul>

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

<b>Default Value</b>	Yes
<b>Configuration File Reference</b>	NOTIFY_NETWORKCAMERA_LED_ENABLE (For KX-HDV430)

#### Network Camera Notification - Alarm (For KX-HDV430)

<b>Description</b>	Selects whether an alarm sound is used to indicate a Network Camera alert.
<b>Note</b>	<ul style="list-style-type: none"><li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li></ul>
<b>Value Range</b>	<ul style="list-style-type: none"><li>Yes</li><li>No</li></ul>
<b>Default Value</b>	Yes
<b>Configuration File Reference</b>	NOTIFY_NETWORKCAMERA_ALARM_ENABLE (For KX-HDV430)

### 4.4.6 Import Display File (For KX-HDV330/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

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

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

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

#### 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.

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 &, ', :, ;, <, >)

## 4.5 VoIP

<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	COMM_CAMERA_NUMBERx

### Name

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

### Ringtone [ 1 - 32 ]

<b>Description</b>	Specifies the ringtone of each Communication Camera.
<b>Value Range</b>	1–32 (10: doorbell)
<b>Default Value</b>	10
<b>Configuration File Reference</b>	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      Status | Network | System | **VoIP** | Telephone | Maintenance

SIP Settings

User Agent

User Agent	Panasonic-[MODEL]/[fwver] ([mac])
------------	-----------------------------------

NAT Identity

Enable Rport (RFC 3581)	<input type="radio"/> Yes <input checked="" type="radio"/> No
Enable Port Punching for SIP	0 seconds [10-300, 0: Disable]
Enable Port Punching for RTP	0 seconds [10-300, 0: Disable]

Save      Cancel

Logout      Web Port Close

VolP

SIP Settings

- Line 1  
- Line 2  
- Line 3  
- Line 4  
- Line 5  
- Line 6  
- Line 7

#### 4.5.1.1 User Agent

##### User Agent

<b>Description</b>	Specifies the text string to send as the user agent in the headers of SIP messages.
--------------------	---

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

## 4.5.1.2 NAT Identity

### Enable Rport (RFC 3581)

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

### Enable Port Punching for SIP

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

### Enable Port Punching for RTP

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

#### 4.5.2 SIP Settings [Line 1]–[Line n]

## 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

**SIP Settings [Line 1]**

**Basic**

Phone Number	<input type="text"/>
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	<input type="text"/>
Outbound Proxy Server Port	5070 [1-65535]
Service Domain	<input type="text"/>
Authentication ID	<input type="text"/>
Authentication Password	*****

**Advanced**

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

**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

### 4.5.2.1 Basic

#### Phone Number

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

#### Registrar Server Address

<b>Description</b>	Specifies the IP address or FQDN of the SIP registrar server.
<b>Value Range</b>	Max. 256 characters

<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	SIP_RGSTR_ADDR_n

## Registrar Server Port

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

## Proxy Server Address

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

## Proxy Server Port

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

## Presence Server Address

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

## Presence Server Port

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

## Outbound Proxy Server Address

<b>Description</b>	Specifies the IP address or FQDN of the SIP outbound proxy server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Not stored.

#### 4.5.2 SIP Settings [Line 1]–[Line n]

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.
-------------	---

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• If you select [<b>Yes</b>], 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 [<b>No</b>], 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.</li> </ul>
<b>Default Value</b>	Yes
<b>Configuration File Reference</b>	SIP_DNSSRV_ENA_n

## SRV lookup Prefix for UDP

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

## SRV lookup Prefix for TCP

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

## SRV lookup Prefix for TLS

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

#### 4.5.2 SIP Settings [Line 1]–[Line n]

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-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	<ul style="list-style-type: none"><li>When registering using a user ID that is not a phone number, you should use this setting.</li><li>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.</li></ul>
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.
-------------	---

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

## T2 Timer

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

## REGISTER Expires Timer

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

## Enable Session Timer (RFC 4028)

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

## Session Timer Method

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

#### 4.5.2 SIP Settings [Line 1]–[Line n]

<b>Default Value</b>	INVITE
<b>Configuration File Reference</b>	SIP_SESSION_METHOD_n

#### Enable 100rel (RFC 3262)

<b>Description</b>	Specifies whether to add the option tag 100rel to the "Supported" header of the INVITE message.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
<b>Note</b>	<ul style="list-style-type: none"><li>• If you select <b>[Yes]</b>, 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 <b>[No]</b>, the option tag 100rel will not be used.</li></ul>
<b>Default Value</b>	Yes
<b>Configuration File Reference</b>	SIP_100REL_ENABLE_n

#### Enable SSAF (SIP Source Address Filter)

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

#### Enable c=0.0.0.0 Hold (RFC 2543)

<b>Description</b>	Selects whether to enable the RFC 2543 Call Hold feature on this line.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
<b>Note</b>	<ul style="list-style-type: none"><li>• If you select <b>[Yes]</b>, 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 <b>[No]</b>, the "c=x.x.x.x" syntax will be set in SDP.</li></ul>
<b>Default Value</b>	Yes
<b>Configuration File Reference</b>	RFC2543_HOLD_ENABLE_n

#### Transport Protocol

<b>Description</b>	Selects which transport layer protocol to use for sending SIP packets.
--------------------	--

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• UDP</li> <li>• TCP</li> <li>• TLS</li> </ul>
<b>Default Value</b>	UDP
<b>Configuration File Reference</b>	SIP_TRANSPORT_n

### TLS Mode

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

**VolP Settings**

**RTP**

RTP Packet Time	20 <input type="button" value="▼"/> 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	<input type="text"/>
Port	5060 [1-65535]
Enable PUBLISH	<input type="button" value="Disable"/> <input type="button" value="Enable"/>
Alert Report Trigger	<input checked="" type="radio"/> Warning <input type="radio"/> 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]

**VolP Settings**

- Line 1

Save      Cancel

#### 4.5.3 VoIP Settings

---

##### 4.5.3.1 RTP

###### RTP Packet Time

Description	Selects the interval, in milliseconds, between transmissions of RTP packets.
Value Range	<ul style="list-style-type: none"><li>• 20</li><li>• 30</li><li>• 40</li><li>• 60</li></ul>
Default Value	20
Configuration File Reference	RTP_PTIME

###### Minimum RTP Port Number

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

###### Maximum RTP Port Number

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

###### Telephone-event Payload Type

Description	Specifies the RFC 2833 payload type for DTMF tones.
Note	<ul style="list-style-type: none"><li>• This setting is available only when [DTMF Type] is set to [RFC2833].</li></ul>
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

<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	VQREPORT_COLLECTOR_ADDRESS

## Port

<b>Description</b>	Specifies the port of the collector server.
<b>Value Range</b>	1–65535
<b>Default Value</b>	5060
<b>Configuration File Reference</b>	VQREPORT_COLLECTOR_PORT

## Enable PUBLISH

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

## Alert Report Trigger

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

## Threshold MOS-LQ (Critical)

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

## Threshold MOS-LQ (Warning)

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

#### 4.5.4 VoIP Settings [Line 1]–[Line n]

---

##### 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.

**VoIP Settings [Line 1]**

Basic		
G.722	Enable	<input checked="" type="radio"/> Yes <input type="radio"/> No
	Priority	<input type="text" value="1"/> [1-255]
PCMA	Enable	<input checked="" type="radio"/> Yes <input type="radio"/> No
	Priority	<input type="text" value="1"/> [1-255]
G.729A	Enable	<input checked="" type="radio"/> Yes <input type="radio"/> No
	Priority	<input type="text" value="1"/> [1-255]
PCMU	Enable	<input checked="" type="radio"/> Yes <input type="radio"/> No
	Priority	<input type="text" value="1"/> [1-255]
DTMF Type		<input checked="" type="radio"/> RFC2833 <input type="radio"/> Inband <input type="radio"/> SIP INFO
Advanced		
RTP Packet QoS (DSCP)	<input type="text" value="0"/> [0-63]	
RTCP Packet QoS (DSCP)	<input type="text" value="0"/> [0-63]	
Enable RTCP	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Enable RTCP-XR	<input type="radio"/> Yes <input checked="" type="radio"/> No	
RTCP&RTCP-XR Interval	<input type="text" value="5"/> seconds [5-65535]	
SRTP Mode	<input type="button" value="RTP/SRTP"/>	
Enable Mixed SRTP&RTP by Conference	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Enable Mixed SRTP&RTP by Transfer	<input type="radio"/> Yes <input checked="" type="radio"/> No	

#### 4.5.4.1 Basic

##### G.722 Enable

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

##### G.722 Priority

<b>Description</b>	Specifies the numerical order usage priority for the G.722 codec.
<b>Value Range</b>	1–255
<b>Default Value</b>	1
<b>Configuration File Reference</b>	CODEC_PRIORITYx_n

#### 4.5.4 VoIP Settings [Line 1]–[Line n]

---

##### PCMA Enable

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

##### PCMA Priority

<b>Description</b>	Specifies the numerical order usage priority for the PCMA codec.
<b>Value Range</b>	1–255
<b>Default Value</b>	1
<b>Configuration File Reference</b>	CODEC_PRIORITYx_n

##### G.729A Enable

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

##### G.729A Priority

<b>Description</b>	Specifies the numerical order usage priority for the G.729A codec.
<b>Value Range</b>	1–255
<b>Default Value</b>	1
<b>Configuration File Reference</b>	CODEC_PRIORITYx_n

##### PCMU Enable

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

##### PCMU Priority

<b>Description</b>	Specifies the numerical order usage priority for the PCMU codec.
<b>Value Range</b>	1–255

<b>Default Value</b>	1
<b>Configuration File Reference</b>	CODEC_PRIORITYx_n

## DTMF Type

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

## 4.5.4.2 Advanced

### RTP Packet QoS (DSCP)

<b>Description</b>	Specifies the DSCP level of DiffServ applied to RTP packets.
<b>Value Range</b>	0–63
<b>Default Value</b>	0
<b>Configuration File Reference</b>	DSCP_RTP_n

### RTCP Packet QoS (DSCP)

<b>Description</b>	Specifies the DSCP level of DiffServ applied to RTCP/RTCP-XR packets.
<b>Value Range</b>	0–63
<b>Default Value</b>	0
<b>Configuration File Reference</b>	DSCP_RTCP_n

### Enable RTCP

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

### Enable RTCP-XR

<b>Description</b>	Selects whether to enable or disable RTCP-XR.
--------------------	---

#### 4.5.4 VoIP Settings [Line 1]–[Line n]

<b>Value Range</b>	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	RTCPXR_ENABLE_n

#### RTCP&RTCP-XR Interval

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

#### SRTP Mode

<b>Description</b>	Selects the mode of SRTP feature.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 0: SRTP</li><li>• 1: RTP/SRTP</li><li>• 2: Panasonic Original</li><li>• 3: SRTP/RTP</li></ul>
<b>Note</b>	<ul style="list-style-type: none"><li>• 0: SRTP Use only SRTP for outgoing and incoming calls.</li><li>• 1: RTP/SRTP Use only RTP for outgoing calls, and RTP or SRTP for incoming calls.</li><li>• 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".</li><li>• 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.</li></ul>
<b>Default Value</b>	1: RTP/SRTP
<b>Configuration File Reference</b>	SRTP_CONNECT_MODE_n

#### Enable Mixed SRTP & RTP by Conference

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

<b>Configuration File Reference</b>	SRTP_MIX_CONFERENCE_ENABLE_n
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## Enable Mixed SRTP & RTP by Transfer

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

**Panasonic**

KX-HDV430

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Telephone

**Call Control**

Call Control	
Send SUBSCRIBE to Voice Mail Server	<input type="radio"/> Yes <input checked="" type="radio"/> No
Conference Server URI	<input type="text"/>
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	<input checked="" type="radio"/> Yes <input type="radio"/> No
International Call Prefix	<input type="text"/>
Country Calling Code	<input type="text"/>
National Access Code	<input type="text"/>
Default Line for Outgoing	Line 2
Call Park Number	<input type="text"/>
Enable Call Park Key	<input type="radio"/> Yes <input checked="" type="radio"/> No
Park Retrieve Number	<input type="text"/>
Directed Call Pickup	<input type="text"/>
Group Call Pickup	<input type="text"/>
Barge in	<input type="text"/>
Private Hold	<input type="radio"/> Yes <input checked="" type="radio"/> No

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

## 4.6.1 Call Control

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### 4.6.1.1 Call Control

#### Send SUBSCRIBE to Voice Mail Server

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

#### Conference Server URI

<b>Description</b>	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".
<b>Note</b>	<ul style="list-style-type: none"><li>Availability depends on your phone system.</li></ul>
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	CONFERENCE_SERVER_URI

#### First-digit Timeout

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

#### Inter-digit Timeout

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

#### Timer for Dial Plan

<b>Description</b>	Specifies the length of time, in seconds, that the unit waits when a "T" or "t" has been entered in the dial plan.
<b>Value Range</b>	1–15 (s)

<b>Default Value</b>	5
<b>Configuration File Reference</b>	MACRODIGIT_TIM

### Enable # Key as delimiter

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

### International Call Prefix

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

### Country Calling Code

<b>Description</b>	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.
<b>Value Range</b>	Max. 8 characters (consisting of 0–9, *, and #)
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	COUNTRY_CALLING_CODE

### National Access Code

<b>Description</b>	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.
<b>Value Range</b>	Max. 8 characters (consisting of 0–9, *, and #)
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	NATIONAL_ACCESS_CODE

### Default Line for Outgoing

<b>Description</b>	Selects the line used to make an outgoing call when no line is specified in the dialing operation.
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#### 4.6.1 Call Control

<b>Value Range</b>	<ul style="list-style-type: none"><li>• Line 1</li><li>• Line 2</li><li>• Line 3</li><li>• Line 4</li><li>• Line 5</li><li>• Line 6</li><li>• Line 7</li><li>• Line 8</li><li>• Line 9</li><li>• Line 10</li><li>• Line 11</li><li>• Line 12</li><li>• Line 13</li><li>• Line 14</li><li>• Line 15</li><li>• Line 16</li></ul>
<b>Note</b>	KX-HDV130 Line 1-2 KX-HDV230 Line 1-6 KX-HDV330 Line 1-12 KX-HDV430 Line 1-16
<b>Default Value</b>	Line 1
<b>Configuration File Reference</b>	DEFAULT_LINE_SELECT

#### Call Park Number

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

#### Enable Call Park Key

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

#### Park Retrieve Number

<b>Description</b>	Specifies the call park retrieve number.
--------------------	--

<b>Value Range</b>	0–4 digits (0–9, *, #)
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	NUM_PLAN_PARK_RETRIEVING

## Park Retrieve Soft Key (For KX-HDV130/KX-HDV230)

<b>Description</b>	Selects whether to have soft key for the call park retrieving.  <b>Note</b> <ul style="list-style-type: none"><li>• This feature is available only when [Enable Call Park Notification] is set to [Yes], and [Park Retrieve Number] is set (see <b>Enable Call Park Notification</b>, <b>Park Retrieve Number</b>).</li></ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Not Use</li> <li>• Soft Key A (Left)</li> <li>• Soft Key B (Center)</li> <li>• Soft Key C (Right)</li> </ul>
<b>Default Value</b>	Not Use
<b>Configuration File Reference</b>	IDLE_SOFT_KEY_PARK_RETRIEVING (For KX-HDV130/KX-HDV230)

## Directed Call Pickup

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

## Group Call Pickup

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

## Barge in

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

## Private Hold

<b>Description</b>	Selects whether to enable or disable "Private Hold".
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#### 4.6.2 Call Control [Line 1]–[Line n]

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<b>Value Range</b>	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	PRIVATE_HOLD_ENABLE

#### 4.6.1.2 Emergency Call Phone Numbers

1–5

<b>Description</b>	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.
<b>Value Range</b>	Max. 32 characters (except &, ", :, ;, <, >)
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	EMERGENCY_CALLx

#### 4.6.1.3 Call Rejection Phone Numbers

1–30

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

**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

**Call Control [Line 1]**

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

## 4.6.2.1 Call Features

### Display Name

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

### Voice Mail Access Number

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

### Enable Anonymous Call

<b>Description</b>	Selects whether to make calls without transmitting the phone number to the called party.
--------------------	--

#### 4.6.2 Call Control [Line 1]–[Line n]

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

#### Enable Block Anonymous Call

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

#### Enable Do Not Disturb

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

#### Enable Call Waiting

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

#### Enable Call Forwarding Always

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

#### Forwarding Number (Always)

<b>Description</b>	Specifies the phone number of the destination to forward all incoming calls to.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Not stored.

## Enable Call Forwarding Busy

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

## Forwarding Number (Busy)

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

## Enable Call Forwarding No Answer

<b>Description</b>	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.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Default Value</b>	No

## Forwarding Number (No Answer)

<b>Description</b>	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.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Not stored.

## Ring Counts (No Answer)

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

## Enable Shared Call

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

#### 4.6.2 Call Control [Line 1]–[Line n]

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

### Enable Key Synchronization (Enable Key Synchronisation)

<b>Description</b>	Selects whether to synchronize the Do Not Disturb and Call Forward settings.
<b>Note</b>	
	<ul style="list-style-type: none"><li>• Even if you select <b>[Yes]</b>, 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.</li></ul>
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	FWD_DND_SYNCHRO_ENABLE_n

### Enable Call Park Notification

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

### Enable Click to Call

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

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

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

<b>Value Range</b>	<ul style="list-style-type: none"> <li>Yes</li> <li>No</li> </ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	BS_EXECUTIVE_SETTING_ENABLE_n (For KX-HDV330/ KX-HDV430)

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

<b>Description</b>	Selects whether to enable the Executive-Assistant Call Filtering feature and the Executive-Assistant Divert feature of the selected line.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>Yes</li> <li>No</li> </ul>
<b>Default Value</b>	No
<b>Configuration File Reference</b>	BS_ASSISTANT_SETTING_ENABLE_n (For KX-HDV330/ KX-HDV430)

### MoH Server URI

<b>Description</b>	Specifies MoH server URI for each line.
<b>Value Range</b>	Max. 384 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	MOH_SERVER_URI_n

### Resource List URI

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

### 4.6.2.2 Dial Plan

#### Dial Plan (max 1000 columns)

<b>Description</b>	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 <a href="#">6.2 Dial Plan</a> .
<b>Value Range</b>	Max. 1000 characters
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	DIAL_PLAN_n

#### Call Even If Dial Plan Does Not Match

<b>Description</b>	Selects whether to make a call even if the dialed number does not match any of the dial formats specified in <a href="#">[Dial Plan]</a> .
--------------------	--

#### 4.6.3 Hotline Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
<b>Note</b>	
	<ul style="list-style-type: none"><li>• 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).</li></ul>
<b>Default Value</b>	Yes
<b>Configuration File Reference</b>	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**

Enable	<input type="radio"/> Yes <input checked="" type="radio"/> No
Hotline Number	<input type="text"/>
Hotline Delay	2 <input type="text"/> seconds [0-10]

Save    Cancel

Hotline Settings

#### 4.6.3.1 Hotline

##### Enable

<b>Description</b>	Selects whether to enable or disable the Hot line feature.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>

<b>Default Value</b>	No
<b>Configuration File Reference</b>	HOTLINE_ENABLE

## Hotline Number

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

## Hotline Delay

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

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

### Panasonic

The screenshot shows the Panasonic KX-HDV130 web interface. The top navigation bar includes tabs for Status, Network, System, VoIP, Telephone (which is highlighted with a red box), and Maintenance. The left sidebar under the 'Telephone' heading has options for Call Control, Hotline Settings, and Program Key, with 'Program Key' also highlighted with a red box. The main content area is titled 'Program Key' and contains a table with columns for No., Type, and Parameter. Two rows are shown in the table, each with a dropdown menu in the Type column and a text input field in the Parameter column. At the bottom of the table are 'Save' and 'Cancel' buttons.

## Type

<b>Description</b>	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.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• One Touch Dial</li> <li>• BLF</li> <li>• Line</li> <li>• ACD</li> <li>• Wrap Up</li> <li>• Call Forward</li> <li>• Group Call Pickup</li> </ul>

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

<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	FLEX_BUTTON_FACILITY_ACTx

#### Parameter

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

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

#### Panasonic

The screenshot shows the Panasonic KX-HDV430 web interface. The top navigation bar includes Status, Network, System, VoIP, Telephone (which is highlighted in blue), and Maintenance. On the left, a sidebar under the Telephone tab lists Call Control options (Line 1 through Line 16) and Hotline Settings. The 'Flexible Key Settings' option is highlighted with a red box. The main content area is titled 'Flexible Key Settings' and contains a table with 16 rows, each representing a key number (1 to 16) with columns for Type, Parameter, and Label Name. Each 'Type' column contains a dropdown menu.

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

<b>Description</b>	Selects the feature to be assigned to each flexible key.
--------------------	--

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• One Touch Dial</li> <li>• BLF</li> <li>• Line</li> <li>• ACD</li> <li>• Wrap Up</li> <li>• Line Status</li> <li>• Call Forward</li> <li>• Phonebook</li> <li>• Call History</li> <li>• Simultaneous Ring</li> <li>• Hoteling (Hospitality)</li> <li>• Transfer</li> <li>• Blind Transfer</li> <li>• Conference</li> <li>• Directed Call Pickup</li> <li>• Call Park</li> <li>• Call Park Retrieve</li> <li>• Group Call Pickup</li> <li>• Network Camera (For KX-HDV430)</li> <li>• Presence</li> <li>• My Phone</li> </ul>
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	FLEX_BUTTON_FACILITY_ACTx

## Parameter

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

## Label Name

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

#### 4.6.6 Tone Settings

## 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	560,100,100,100,100,100,100,100,100,100,100,100

**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	<ul style="list-style-type: none"><li>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.</li></ul>
Default Value	350,440
Configuration File Reference	DIAL_TONE1_FRQ

## Tone Timings

<b>Description</b>	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.
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>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.</li> <li>It is recommended that you set a value of 60 milliseconds or more for the first value (off 1).</li> </ul>
<b>Value Range</b>	0–16000 (0: Infinite time)
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>Avoid setting 1–50 for any of the values.</li> </ul>
<b>Default Value</b>	60,0
<b>Configuration File Reference</b>	DIAL_TONE1_TIMING

## 4.6.6.2 Busy Tone

### Tone Frequencies

<b>Description</b>	Specifies the dual-tone frequencies, in hertz, of busy tones using 2 whole numbers separated by a comma.
<b>Value Range</b>	0, 200–2000 (0: No tone)
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>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.</li> </ul>
<b>Default Value</b>	480,620
<b>Configuration File Reference</b>	BUSY_TONE_FRQ

### Tone Timings

<b>Description</b>	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.
<b>Value Range</b>	0–16000 (0: Infinite time)
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>Avoid setting 1–50 for any of the values.</li> </ul>
<b>Default Value</b>	60,500,440
<b>Configuration File Reference</b>	BUSY_TONE_TIMING

#### 4.6.6 Tone Settings

---

##### 4.6.6.3 Ringing Tone

###### Tone Frequencies

<b>Description</b>	Specifies the dual-tone frequencies, in hertz, of ringback tones using 2 whole numbers separated by a comma.
<b>Value Range</b>	0, 200–2000 (0: No tone) <b>Note</b> <ul style="list-style-type: none"><li>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.</li></ul>
<b>Default Value</b>	440,480
<b>Configuration File Reference</b>	RINGBACK_TONE_FRQ

###### Tone Timings

<b>Description</b>	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. <b>Note</b> <ul style="list-style-type: none"><li>It is recommended that you set a value of 60 milliseconds or more for the first value (off 1).</li></ul>
<b>Value Range</b>	0–16000 (0: Infinite time) <b>Note</b> <ul style="list-style-type: none"><li>Avoid setting 1–50 for any of the values.</li></ul>
<b>Default Value</b>	60,2000,3940
<b>Configuration File Reference</b>	RINGBACK_TONE_TIMING

##### 4.6.6.4 Stutter Tone

###### Tone Frequencies

<b>Description</b>	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.
<b>Value Range</b>	0, 200–2000 (0: No tone) <b>Note</b> <ul style="list-style-type: none"><li>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.</li></ul>
<b>Default Value</b>	350,440
<b>Configuration File Reference</b>	DIAL_TONE4_FRQ

## Tone Timings

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

## 4.6.6.5 Reorder Tone

### Tone Frequencies

<b>Description</b>	Specifies the dual-tone frequencies, in hertz, of reorder tones using 2 whole numbers separated by a comma.
<b>Value Range</b>	0, 200–2000 (0: No tone)
<b>Note</b>	<ul style="list-style-type: none"> <li>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.</li> </ul>
<b>Default Value</b>	480,620
<b>Configuration File Reference</b>	REORDER_TONE_FRQ

### Tone Timings

<b>Description</b>	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.
<b>Note</b>	<ul style="list-style-type: none"> <li>It is recommended that you set a value of 60 milliseconds or more for the first value (off 1).</li> </ul>
<b>Value Range</b>	0–16000 (0: Infinite time)
<b>Default Value</b>	60,250,190
<b>Note</b>	<ul style="list-style-type: none"> <li>Avoid setting 1–50 for any of the values.</li> </ul>
<b>Configuration File Reference</b>	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.

### Panasonic

The screenshot shows the KX-HDV430 web interface. The top navigation bar includes tabs for Status, Network, System, VoIP, Telephone (which is highlighted in red), and Maintenance. On the left, a sidebar menu under the Telephone heading lists Call Control (with options for Line 1 through Line 16), Hotline Settings, Flexible Key Settings, Tone Settings, and Import Phonebook (which is also highlighted in red). 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. The entire interface is presented in a light gray color scheme with blue highlights for active links and buttons.

### 4.6.7.1 Import Phonebook

#### File Name

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

<b>Value Range</b>	No limitation
<b>Note</b>	<ul style="list-style-type: none"> <li>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.</li> </ul>
<b>Default Value</b>	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.

#### 4.6.9 Video Call Settings (For KX-HDV430)

The screenshot shows the Panasonic KX-HDV430 Video Call Settings interface. At the top, there is a navigation bar with tabs: Status, Network, System, VoIP, Telephone (which is highlighted in red), and Maintenance. On the left, there is a sidebar menu under the heading 'Telephone' with the following options: Call Control (which is highlighted in blue), Hotline Settings, Flexible Key Settings, Tone Settings, Import Phonebook, and Export Phonebook (which is highlighted in red). The main content area has a title 'Export Phonebook' and a sub-section titled 'Export Phonebook' with the instruction 'Click [Export] button to export the phonebook from this unit.' A large 'Export' button is located at the bottom of this section.

##### 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.

**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	<input checked="" type="radio"/> Voice <input type="radio"/> Video
-------------------	--

**Screen Mode**

Screen Mode	<input checked="" type="radio"/> Normal <input type="radio"/> Split
-------------	---

**Send Image**

Send Image at Start	<input checked="" type="radio"/> Yes <input type="radio"/> No
---------------------	---

**Rate Settings**

Bit Rate	2048 <input type="button" value="▼"/> kbps
Bit Rate Use	<input checked="" type="radio"/> Maximum <input type="radio"/> Fixed
Frame Rate	30 <input type="button" value="▼"/> fps
Image Size	HVGAW <input type="button" value="▼"/>

Save Cancel

#### 4.6.9.1 Default Call Mode

##### Default Call Mode

<b>Description</b>	Selects the default call type when you make a call by going off hook, etc.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Voice</li> <li>• Video</li> </ul>
<b>Default Value</b>	Voice
<b>Configuration File Reference</b>	DEFAULT_CALL_MODE

#### 4.6.9.2 Screen Mode

##### Screen Mode

<b>Description</b>	Selects the mode for the video screen.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Normal</li> <li>• Split</li> </ul>

#### 4.6.9 Video Call Settings (For KX-HDV430)

---

<b>Default Value</b>	Normal
<b>Configuration File Reference</b>	VIDEO_SCREEN_MODE

#### 4.6.9.3 Send Image

##### Send Image at Start

<b>Description</b>	Selects whether the video is automatically sent when you start a video call.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
<b>Default Value</b>	Yes
<b>Configuration File Reference</b>	VIDEO_SEND_IMAGE_ENABLE

#### 4.6.9.4 Rate Settings

##### Bit Rate

<b>Description</b>	Selects the bit rate for the video when you make a video call.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 128</li><li>• 256</li><li>• 384</li><li>• 512</li><li>• 768</li><li>• 1024</li><li>• 2048</li></ul>
<b>Default Value</b>	2048
<b>Configuration File Reference</b>	VIDEO_BIT_RATE

##### Bit Rate Use

<b>Description</b>	Selects whether the specified bit rate is treated as the maximum bit rate or a fixed bit rate.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Maximum</li><li>• Fixed</li></ul>
<b>Default Value</b>	Maximum
<b>Configuration File Reference</b>	VIDEO_BIT_RATE_USE

##### Frame Rate

<b>Description</b>	Selects the frame rate for the video when you make a video call.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 15</li><li>• 30</li></ul>
<b>Default Value</b>	30

<b>Configuration File Reference</b>	VIDEO_FRAME_RATE
-------------------------------------	------------------

## Image Size

<b>Description</b>	Selects the size for video images when you make a video call.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>QCIF</li> <li>QVGA</li> <li>CIF</li> <li>HVGAW</li> <li>VGA</li> </ul>
<b>Default Value</b>	HVGAW
<b>Configuration File Reference</b>	VIDEO_IMAGE_SIZE

## 4.6.10 DSS Console (For KX-HDV230/KX-HDV330/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**

No.	Type	Parameter	Label Name
001	▼		
002	▼		
003	▼		

### 4.6.10.1 DSS 1-5 Key (No. 1–200)

#### Type

<b>Description</b>	Selects the feature to be assigned to each DSS console key.
--------------------	---

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

<b>Value Range</b>	<ul style="list-style-type: none"><li>• One Touch Dial</li><li>• BLF</li><li>• Line</li><li>• ACD</li><li>• Wrap Up</li><li>• Line Status</li><li>• Call Forward</li><li>• Phonebook</li><li>• Call History</li><li>• Simultaneous Ring</li><li>• Hoteling (Hospitality)</li><li>• Transfer</li><li>• Blind Transfer</li><li>• Conference</li><li>• Directed Call Pickup</li><li>• Call Park</li><li>• Call Park Retrieve</li><li>• Group Call Pickup</li><li>• Network Camera (For KX-HDV430)</li><li>• Presence</li><li>• My Phone</li></ul>
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	DSS_BUTTON_FACILITY_ACTx

#### Parameter

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

#### Label Name

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

#### 4.7.1.1 Provisioning Maintenance

##### Standard File URL

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

##### Product File URL

<b>Description</b>	Specifies the URL of the product configuration file, which is used when all units with the same model number need the same settings.
<b>Value Range</b>	Max. 384 characters

- Note**
- For details about the formats, see **2.1.3 Server Address Formats**.

#### 4.7.1 Provisioning Maintenance

---

<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	CFG_PRODUCT_FILE_PATH

### Master File URL

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

### Cyclic Auto Resync

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

### Resync Interval

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

### Time Resync

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

### Header Value for Resync Event

<b>Description</b>	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.
<b>Value Range</b>	Max. 15 characters
<b>Default Value</b>	check-sync

Configuration File Reference	CFG_RESYNC_FROM_SIP
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## 4.7.2 Firmware Maintenance

This screen allows you to perform firmware updates automatically.

**Panasonic**

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

**Firmware Maintenance**

Firmware Maintenance	
Enable Firmware Update	<input checked="" type="radio"/> Yes <input type="radio"/> No
Firmware File URL	http://192.168.0.1/HDV430-03.000.fw
Firmware Version	03.000
<b>Save</b> <b>Cancel</b>	

**Maintenance**

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

### 4.7.2.1 Firmware Maintenance

#### Enable Firmware Update

<b>Description</b>	Selects whether to perform firmware updates when the unit detects a newer version of firmware.
<b>Note</b>	<ul style="list-style-type: none"> <li>Manual firmware updates from the Web user interface (→ see <b>4.7.3 Upgrade Firmware (For KX-HDV130/KX-HDV230)</b>) can be performed regardless of this setting.</li> <li>Firmware updates using TR-069 can be performed regardless of this setting.</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li>Yes</li> <li>No</li> </ul>
<b>Default Value</b>	Yes
<b>Configuration File Reference</b>	FIRM_UPGRADE_ENABLE

#### Firmware File URL

<b>Description</b>	Specifies the URI where the firmware file is stored.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when <b>[Enable Firmware Update]</b> is set to <b>[Yes]</b>.</li> </ul>

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

<b>Value Range</b>	Max. 384 characters
<b>Note</b>	<ul style="list-style-type: none"><li>If "{fwver}" is included in this parameter, it will be replaced with the value specified in [Firmware Version]. For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li></ul>
<b>Default Value</b>	Not stored.
<b>Configuration File Reference</b>	FIRM_FILE_PATH

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

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

#### Note

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

#### Panasonic

The screenshot shows the Panasonic KX-HDV130 web interface. At the top, there is a navigation bar with tabs: Status, Network, System, VoIP, Telephone, and Maintenance. The Maintenance tab is currently selected and highlighted in red. On the left side, there is a sidebar menu under the Maintenance heading. The "Upgrade Firmware" option is listed and also highlighted with a red box. Below the sidebar, there is a main content area titled "Upgrade Firmware". It contains a form with a "Firmware File URL" input field and a "Update Firmware" button. The entire interface is presented in a clean, modern style with a light gray background and blue/white text.

#### 4.7.3.1 Upgrade Firmware

#### Firmware File URL (For KX-HDV130)

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

## File Name (For KX-HDV230)

<b>Description</b>	Specifies the path of the firmware file to be imported.
<b>Value Range</b>	No limitation
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>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.</li> </ul>
<b>Default Value</b>	Not stored.

## 4.7.4 Export Logging File

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

The screenshot shows the KX-HDV430 web interface. At the top, there's a navigation bar with tabs: Status, Network, System, VoIP, Telephone, and Maintenance. The Maintenance tab is currently active and highlighted with a red box. Below the navigation bar, there's a sidebar on the left with several options: Logout, Web Port Close, Maintenance (which is expanded), Provisioning Maintenance, Firmware Maintenance, Export Logging File (also highlighted with a red box), Reset to Defaults, and Restart. The main content area is titled "Export Logging File". It has a sub-section titled "Export Logging File" with a "Logging File Type" dropdown. The dropdown shows three options: Power Down (selected with a radio button), Event, and SIP Packet. At the bottom right of this section is a "Export" button.

### 4.7.4.1 Export Logging File

#### Logging File Type

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

#### 4.7.5 Reset to Defaults

## 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**).

#### Panasonic

The screenshot shows the KX-HDV430 maintenance interface. The top navigation bar includes Status, Network, System, VoIP, Telephone, and Maintenance. The Maintenance tab is active. On the left, a sidebar lists Maintenance options: Provisioning Maintenance, Firmware Maintenance, Export Logging File, **Reset to Defaults** (which is highlighted with a red box), and Restart. The main content area is titled "Reset to Defaults". It contains a sub-section titled "Reset to Carrier Defaults" with the instruction: "The following settings will be reset to carrier default values when you click [Reset to Carrier Defaults]". A "Reset to Carrier Defaults" button is present. The entire screenshot is framed by a red border.

## 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.

#### Panasonic

The screenshot shows the KX-HDV430 maintenance interface. The top navigation bar includes Status, Network, System, VoIP, Telephone, and Maintenance. The Maintenance tab is active. On the left, a sidebar lists Maintenance options: Provisioning Maintenance, Firmware Maintenance, Export Logging File, **Reset to Defaults**, and **Restart** (which is highlighted with a red box). The main content area is titled "Restart". It contains a sub-section titled "Restart" with the instruction: "Click [Restart] to proceed. Restarting will take a few moments.". A "Restart" button is present. The entire screenshot is framed by a red border.

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## **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 188
BUTTON_LOCATION_SETTING	page 188
SYS_HOME_MENU_ICONx	page 188
FWD_DND_MENU_ENABLE	page 189
BLOCK_CID_MENU_ENABLE	page 189
BLOCK_ANONY_MENU_ENABLE	page 189
ANONY_CALL_MENU_ENABLE	page 189
AUTO_INPUT_KEY_TIME	page 190
START_DIAL_POUND_KEY	page 190
TIME_ZONE_SET_ENABLE	page 190
DISCLOSE_FUNCTION_ENABLE	page 190
VM_FUNCTION_ENABLE	page 190
DISPLAY_CALL_KEY_ENABLE	page 191
LCD_SCREEN_TIMEOUT <sup>3</sup>	page 191
LCD_ACTIVE_LEVEL <sup>3</sup>	page 191
LCD_INACTIVE_LEVEL <sup>3</sup>	page 191
DSS_LCD_ACTIVATION <sup>3</sup>	page 191
DSS_LCD_BACKLIGHT <sup>3</sup>	page 192
DSS_LCD_CONTRAST <sup>3</sup>	page 192
CALL_SETTINGS_MENU_ENABLE	page 192
ECO_MODE_MENU_ENABLE	page 192
NOTIFICATION_MENU_ENABLE	page 192
NOTIFY_MISSEDCALL_ENABLE <sup>1</sup>	page 193
NOTIFY_MISSEDCALL_LED_ENABLE <sup>1</sup>	page 193
NOTIFY_VOICEMAIL_ENABLE <sup>1</sup>	page 193
NOTIFY_VOICEMAIL_LED_ENABLE <sup>1</sup>	page 193
NOTIFY_VOICEMAIL_ALARM_ENABLE <sup>1</sup>	page 194
NOTIFY_NETWORKCAMERA_ENABLE <sup>1</sup>	page 194
NOTIFY_NETWORKCAMERA_LED_ENABLE <sup>1</sup>	page 194

Parameter Name	Ref.
NOTIFY_NETWORKCAMERA_ALARM_ENABLE <sup>*1</sup>	page 195
NOTIFICATION_ALARM_TYPE	page 195
CODEC_VAD_CNG_ENABLE <sup>*3</sup>	page 195
BOOTLOG_SERVER_URI	page 196
DISPLAY_DIVERSION_ENABLE	page 196
ERROR_AUTO_REBOOT_TIME	page 196
HOME_DISPLAY_TYPE	page 196
FUNCTION_DISPLAY_TYPE	page 196
FOCUS_OPERATION_ENABLE	page 197
INCOMING_DISPLAY_ENABLE	page 197
DISPLAY_AUTO_CHANGE_ENABLE	page 197
NOTIFY_FUNC_KEY_ENABLE	page 197
NOTIFY_DSS_KEY_ENABLE	page 197
IDLE_SOFT_KEY_1	page 198
IDLE_SOFT_KEY_2	page 198
IDLE_SOFT_KEY_3	page 199
IDLE_SOFT_KEY_4	page 200
FORWARD_INCOMING_SOFTKEY_ENABLE	page 201
SHARED_LINE_ICON_ENABLE	page 202
TALKING_SOFT_KEY_1	page 202
TALKING_SOFT_KEY_2	page 202
TALKING_SOFT_KEY_3	page 203
TALKING_SOFT_KEY_4	page 204
DELAY_RING_TIME_n	page 205
OFF_HOOK_MONITOR_ENABLE	page 205
PRIVATE_HOLD_ENABLE <sup>*2</sup>	page 205
CONF_OWNER_OUT_ENABLE	page 206
PCAP_ENABLE	page 206
PCAP_REMOTE_ID	page 206
PCAP_REMOTE_PASS	page 206
PCAP_REMOTE_PORT	page 206
DTMF_OUT_ENABLE	page 207
CANCEL_OPERATION_MODE	page 207

## 5.1 Configuration File Parameter List

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### Basic Network Settings

Parameter Name	Ref.
IP_ADDR_MODE <sup>1</sup>	page 207
CONNECTION_TYPE	page 207
STATIC_IP_ADDRESS <sup>1</sup>	page 207
STATIC_SUBNET <sup>1</sup>	page 208
STATIC_GATEWAY <sup>1</sup>	page 208
USER_DNS1_ADDR <sup>1</sup>	page 208
USER_DNS2_ADDR <sup>1</sup>	page 209
DHCP_DNS_ENABLE <sup>1</sup>	page 209
DHCP_HOST_NAME <sup>2</sup>	page 209
DHCP_VENDOR_CLASS	page 210
CONNECTION_TYPE_IPV6 <sup>1</sup>	page 210
STATIC_IP_ADDRESS_IPV6 <sup>1</sup>	page 210
PREFIX_IPV6 <sup>1</sup>	page 210
STATIC_GATEWAY_IPV6 <sup>1</sup>	page 211
USER_DNS1_ADDR_IPV6 <sup>1</sup>	page 211
USER_DNS2_ADDR_IPV6 <sup>1</sup>	page 211
DHCP_DNS_ENABLE_IPV6 <sup>1</sup>	page 211

### Ethernet Port Settings

Parameter Name	Ref.
PHY_MODE_LAN <sup>1</sup>	page 211
PHY_MODE_PC <sup>1</sup>	page 212
VLAN_ENABLE <sup>1</sup>	page 212
VLAN_ID_IP_PHONE <sup>1</sup>	page 212
VLAN_PRI_IP_PHONE <sup>1</sup>	page 213
VLAN_ID_PC <sup>1</sup>	page 213
VLAN_PRI_PC <sup>1</sup>	page 213
VLAN_EGTAG_PC_ENABLE	page 213
LLDP_ENABLE <sup>1</sup>	page 213
LLDP_INTERVAL <sup>2</sup>	page 214
LLDP_VLAN_ID_PC <sup>1</sup>	page 214
LLDP_VLAN_PRI_PC <sup>1</sup>	page 214
CDP_ENABLE <sup>1</sup>	page 214

Parameter Name	Ref.
CDP_INTERVAL <sup>2</sup>	page 215

## Pre-Provisioning Settings

Parameter Name	Ref.
SIPPNP_PROV_ENABLE	page 215
OPTION66_ENABLE	page 215
OPTION159_PROV_ENABLE	page 215
OPTION160_PROV_ENABLE	page 216
DHCPV6_OPTION17_PROV_ENABLE	page 216

## Provisioning Settings

Parameter Name	Ref.
CFG_STANDARD_FILE_PATH <sup>2</sup>	page 216
CFG_PRODUCT_FILE_PATH <sup>2</sup>	page 216
CFG_MASTER_FILE_PATH <sup>2</sup>	page 217
CFG_CYCLIC <sup>2</sup>	page 217
CFG_CYCLIC_INTVL <sup>2</sup>	page 217
CFG_RESYNC_TIME <sup>2</sup>	page 218
CFG_RTRY_INTVL	page 218
CFG_RESYNC_FROM_SIP <sup>2</sup>	page 218
CFG_RESYNC_ACTION	page 218
CFG_FILE_KEY2	page 219
CFG_FILE_KEY3	page 219
CFG_FILE_KEY_LENGTH	page 219
CFG_ROOT_CERTIFICATE_PATH	page 219
CFG_CLIENT_CERT_PATH	page 220
CFG_PKEY_PATH	page 220
HTTP_SSL_VERIFY	page 220
CFG_RESYNC_DURATION	page 221
CFG_BOOTUP_DURATION_ENABLE	page 221

## Firmware Update Settings

Parameter Name	Ref.
FIRM_UPGRADE_ENABLE <sup>2</sup>	page 221
FIRM_FILE_PATH <sup>2</sup>	page 222
FIRM_VERSION	page 222

## 5.1 Configuration File Parameter List

Parameter Name	Ref.
FWDL_RANDOM_DURATION	page 222

## HTTP Settings

Parameter Name	Ref.
HTTP_VER <sup>*2</sup>	page 223
HTTP_USER_AGENT <sup>*2</sup>	page 223
HTTP_AUTH_ID <sup>*1</sup>	page 223
HTTP_AUTH_PASS <sup>*1</sup>	page 224
HTTP_PROXY_ENABLE <sup>*2</sup>	page 224
HTTP_PROXY_ADDR <sup>*2</sup>	page 224
HTTP_PROXY_PORT <sup>*2</sup>	page 224
HTTP_PROXY_ID	page 224
HTTP_PROXY_PASS	page 225

## HTTPD/WEB Settings

Parameter Name	Ref.
HTTPD_LISTEN_PORT	page 225
HTTPD_PORTOPEN_AUTO	page 225
HTTPD_PORTCLOSE_TM	page 225
USER_ID	page 225
USER_PASS <sup>*2</sup>	page 226
ADMIN_ID	page 226
ADMIN_PASS <sup>*2</sup>	page 226

## TR-069 Settings

Parameter Name	Ref.
ACS_URL	page 227
ACS_USER_ID	page 227
ACS_PASS	page 227
PERIODIC_INFORM_ENABLE	page 227
PERIODIC_INFORM_INTERVAL	page 228
PERIODIC_INFORM_TIME	page 228
CON_REQ_USER_ID	page 228
CON_REQ_PASS	page 229
ANNEX_G_STUN_ENABLE	page 229
ANNEX_G_STUN_SERV_ADDR	page 229

Parameter Name	Ref.
ANNEX_G_STUN_SERV_PORT	page 229
ANNEX_G_STUN_USER_ID	page 230
ANNEX_G_STUN_PASS	page 230
ANNEX_G_STUN_MAX_KEEP_ALIVE	page 230
ANNEX_G_STUN_MIN_KEEP_ALIVE	page 231
UDP_CON_REQ_ADDR_NOTIFY_LIMIT	page 231
DEVICE_PROVISIONING_CODE	page 231
TR069_REGISTERING	page 231
TR069_REGISTERED	page 231

## XML Settings

Parameter Name	Ref.
XMLAPP_ENABLE <sup>2</sup>	page 232
XMLAPP_USERID <sup>2</sup>	page 232
XMLAPP_USERPASS <sup>2</sup>	page 232
XMLAPP_LDAP_URL <sup>2</sup>	page 232
XMLAPP_LDAP_USERID <sup>2</sup>	page 232
XMLAPP_LDAP_USERPASS <sup>2</sup>	page 233
XMLAPP_NPB_SEARCH_TIMER	page 233
XMLAPP_LDAP_MAXRECORD <sup>2</sup>	page 233
XML_HTTPPD_PORT <sup>2</sup>	page 233
XML_ERROR_INFORMATION	page 233
XMLAPP_START_URL <sup>2</sup>	page 234
XMLAPP_INITIAL_URL <sup>2</sup>	page 234
XMLAPP_INCOMING_URL <sup>2</sup>	page 234
XMLAPP_TALKING_URL <sup>2</sup>	page 234
XMLAPP_MAKECALL_URL <sup>2</sup>	page 234
XMLAPP_CALLLOG_URL <sup>2</sup>	page 235
XMLAPP_IDLING_URL <sup>2</sup>	page 235
XML_INITIATE_KEY_SOFT1 <sup>2</sup>	page 235
XML_INITIATE_KEY_SOFT2 <sup>2</sup>	page 235
XML_INITIATE_KEY_SOFT3 <sup>2</sup>	page 235
XMLAPP_FFKEY_ENABLE <sup>2</sup>	page 236
XML_SOFT_KEY_NAMEx	page 236
XMLAPP_URL_SOFT_KEYx	page 236

## 5.1 Configuration File Parameter List

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Parameter Name	Ref.
<code>XMLAPP_URL_FLEX_BUTTONx</code>	page 236
<code>XMLAPP_STATUSBAR_ENABLE</code>	page 237
<code>SYS_HOME_MENU_XML_NAMEx</code>	page 237
<code>SYS_HOME_MENU_XML_URLx</code>	page 237
<code>SYS_HOME_MENU_XML_ICONx</code>	page 237
<code>XML_PHONEBOOK_URL</code>	page 238
<code>XML_PHONEBOOK_CYCLIC_INTVL</code>	page 238
<code>XML_CURSOR_SKIP_ENABLE</code>	page 238
<code>XMLAPP_URL_REDIAL_KEY</code>	page 238
<code>XMLAPP_RCV_IP_ADDRESSx</code>	page 238

## XSI Settings

Parameter Name	Ref.
<code>XSI_ENABLE</code> <sup>2</sup>	page 239
<code>XSI_SERVER</code> <sup>2</sup>	page 239
<code>XSI_SERVER_TYPE</code> <sup>2</sup>	page 239
<code>XSI_SERVER_PORT</code> <sup>2</sup>	page 239
<code>XSI_USERID_n</code> <sup>1</sup>	page 240
<code>XSI_PASSWORD_n</code> <sup>1</sup>	page 240
<code>XSI_PHONEBOOK_ENABLE_n</code> <sup>2</sup>	page 240
<code>XSI_PHONEBOOK_CYCLIC_INTVL</code>	page 240
<code>XSI_PHONEBOOK_RESYNC_DURATION</code>	page 240
<code>XSI_PHONEBOOK_TYPE_n</code> <sup>2</sup>	page 241
<code>XSI_CALLLOG_ENABLE_n</code> <sup>2</sup>	page 241
<code>XSI_VISUAL_VM_ENABLE_n</code> <sup>2</sup>	page 241
<code>XSI_SIP_CREDENTIALS_ENABLE</code> <sup>2</sup>	page 241
<code>BSD_MULTI_TYPE_ENABLE</code>	page 242
<code>BSD_GROUP_ENABLE_n</code> <sup>2</sup>	page 242
<code>BSD_GROUPCOM_ENABLE_n</code> <sup>2</sup>	page 242
<code>BSD_ENTERPRISE_ENABLE_n</code> <sup>2</sup>	page 242
<code>BSD_ENTERPRISECOM_ENABLE_n</code> <sup>2</sup>	page 243
<code>BSD_PERSONAL_ENABLE_n</code> <sup>2</sup>	page 243

## XMPP (UC-ONE) Settings

Parameter Name	Ref.
UC_ENABLE <sup>*2</sup>	page 243
UC_USERID <sup>*1</sup>	page 243
UC_PASSWORD <sup>*1</sup>	page 244
XMPP_SERVER <sup>*2</sup>	page 244
XMPP_PORT <sup>*2</sup>	page 244
XMPP_TLS_VERIFY	page 244
XMPP_ROOT_CERT_PATH	page 244
XMPP_CLIENT_CERT_PATH	page 245
XMPP_PKEY_PATH	page 245
UC_DNSSRV_ENA	page 245
UC_TCP_SRV_PREFIX	page 245
UC_USERID_CASE_SENSITIVE	page 245
PRESENCE_MYPHONE_STATUS	page 246
PRESENCE_INVISIBLE_ENABLE	page 246

## LDAP Settings

Parameter Name	Ref.
LDAP_ENABLE <sup>*2</sup>	page 246
LDAP_DNSSRV_ENABLE <sup>*2</sup>	page 246
LDAP_SERVER <sup>*2</sup>	page 247
LDAP_SERVER_PORT <sup>*2</sup>	page 247
LDAP_MAXRECORD <sup>*2</sup>	page 247
LDAP_NUMB_SEARCH_TIMER	page 247
LDAP_NAME_SEARCH_TIMER	page 247
LDAP_USERID <sup>*2</sup>	page 248
LDAP_PASSWORD <sup>*2</sup>	page 248
LDAP_NAME_FILTER <sup>*2</sup>	page 248
LDAP_NUMB_FILTER <sup>*2</sup>	page 248
LDAP_NAME_ATTRIBUTE <sup>*2</sup>	page 248
LDAP_NUMB_ATTRIBUTE <sup>*2</sup>	page 249
LDAP_BASEDN <sup>*2</sup>	page 249
LDAP_SSL_VERIFY	page 249
LDAP_ROOT_CERT_PATH	page 249
LDAP_CLIENT_CERT_PATH	page 249

## 5.1 Configuration File Parameter List

Parameter Name	Ref.
LDAP_PKEY_PATH	page 250
LDAP_DISPLAY_FORMAT	page 250

## Call Center Settings

Parameter Name	Ref.
CALL_CENTER_ENABLE_n <sup>2</sup>	page 250
ACD_ENABLE_n <sup>2</sup>	page 250
ACD_LOGIN_CONDITION_n	page 251
ACD_LOGOUT_CONDITION_n	page 251
CC_DISPOSITION_CODE_ENABLE_n <sup>2</sup>	page 251
CC_CUSTOMER_ORG_TRACE_ENABLE_n <sup>2</sup>	page 251
CC_HOTELING_EVENT_n <sup>2</sup>	page 251
HOTELING_USERID_n <sup>1</sup>	page 252
HOTELING_PASSWORD_n <sup>1</sup>	page 252
CC_STATUS_EVENT_ENABLE_n <sup>2</sup>	page 252
UC_HOTELING_MODE	page 252
UC_FLEXIBLESEATING_UNLOCKPIN	page 253

## SNMP Settings

Parameter Name	Ref.
SNMP_ENABLE	page 253
SNMP_TRUST_IP	page 253
SNMP_TRUST_PORT	page 253
SNMP_RO_COMMUNITY_STRING	page 253
SNMP_SECURITY_TYPE	page 253
SNMP_SECURITY_USER	page 254
SNMP_AUTH_TYPE	page 254
SNMP_AUTH_PASSWORD	page 254
SNMP_ENCRYPT_TYPE	page 254
SNMP_ENCRYPT_PASSWORD	page 254

## Multicast Paging Settings

Parameter Name	Ref.
MPAGE_ADDR <sup>m<sup>2</sup></sup>	page 255
MPAGE_IPV6_ADDR <sup>m<sup>2</sup></sup>	page 255
MPAGE_PORT <sup>m<sup>2</sup></sup>	page 255

Parameter Name	Ref.
MPAGE_PRIORITY <sup>2</sup>	page 255
MPAGE_LABEL <sup>2</sup>	page 256
MPAGE_SEND_ENABLE <sup>2</sup>	page 256
MPAGE_CODEC	page 256
MPAGE_SP_VOL_EMERGENCY	page 256
MPAGE_SP_VOL_PRIORITY	page 256
MPAGE_DND_ENABLE	page 257
MPAGE_FUNCKEY_ENABLE	page 257

## NTP Settings

Parameter Name	Ref.
NTP_ADDR <sup>2</sup>	page 257
TIME_SYNC_INTVL	page 257
TIME_QUERY_INTVL <sup>2</sup>	page 257

## Time Settings

Parameter Name	Ref.
LOCAL_TIME_ZONE_POSIX	page 258
TIME_ZONE <sup>2</sup>	page 258
DST_ENABLE <sup>2</sup>	page 259
DST_OFFSET <sup>2</sup>	page 259
DST_START_MONTH <sup>2</sup>	page 260
DST_START_ORDINAL_DAY <sup>2</sup>	page 260
DST_START_DAY_OF_WEEK <sup>2</sup>	page 260
DST_START_TIME <sup>2</sup>	page 261
DST_STOP_MONTH <sup>2</sup>	page 261
DST_STOP_ORDINAL_DAY <sup>2</sup>	page 261
DST_STOP_DAY_OF_WEEK <sup>2</sup>	page 262
DST_STOP_TIME <sup>2</sup>	page 262

## Network Phonebook (Common)

Parameter Name	Ref.
ONLY_NPB_ENABLE	page 263
NETWORK_SEARCH_ENABLE	page 263
NW_PHONEBOOK_ADVANCED_SERACH	page 263

## Language Settings

Parameter Name	Ref.
AVAILABLE_LANGUAGE <sup>*2</sup>	page 263
DEFAULT_LANGUAGE <sup>*2</sup>	page 264
LANGUAGE_PATHx	page 264
LANGUAGE_VERx	page 264
AVAILABLE_LANGUAGE_WEB <sup>*2</sup>	page 264
WEB_LANGUAGE <sup>*2</sup>	page 264
WEB_LANGUAGE_PATHx	page 265
WEB_LANGUAGE_VERx	page 265

## NAT Settings

Parameter Name	Ref.
STUN_SERV_ADDR <sup>*2</sup>	page 265
STUN_SERV_PORT <sup>*2</sup>	page 265
STUN_2NDSERV_ADDR	page 266
STUN_2NDSERV_PORT	page 266
STUN_INTVL <sup>*2</sup>	page 266
SIP_ADD_RPORT <sup>*2</sup>	page 266
PORT_PUNCH_INTVL <sup>*2</sup>	page 266
RTP_PORT_PUNCH_INTVL <sup>*2</sup>	page 267
EXTERNAL_RTP_PORTx	page 267

## SIP Settings

Parameter Name	Ref.
SIP_USER_AGENT <sup>*2</sup>	page 267
PHONE_NUMBER_n <sup>*2</sup>	page 268
SIP_URI_n <sup>*2</sup>	page 268
SIP_RGSTR_ADDR_n <sup>*2</sup>	page 268
SIP_RGSTR_PORT_n <sup>*2</sup>	page 268
SIP_PRXY_ADDR_n <sup>*2</sup>	page 269
SIP_PRXY_PORT_n <sup>*2</sup>	page 269
SIP_PRSNC_ADDR_n <sup>*2</sup>	page 269
SIP_PRSNC_PORT_n <sup>*2</sup>	page 269
SIP_OUTPROXY_ADDR_n <sup>*2</sup>	page 270
SIP_OUTPROXY_PORT_n <sup>*2</sup>	page 270

Parameter Name	Ref.
SIP_DNSSRV_ENA_NAPTR_n	page 270
SIP_SVCDOMAIN_n <sup>*</sup>	page 270
SIP_AUTHID_n <sup>*</sup>	page 270
SIP_PASS_n <sup>*</sup>	page 271
SIP_SRC_PORT_n <sup>*</sup>	page 271
DSCP_SIP_n <sup>*</sup>	page 271
SIP_DNSSRV_ENA_n <sup>*</sup>	page 272
SIP_UDP_SRV_PREFIX_n <sup>*</sup>	page 272
SIP_TCP_SRV_PREFIX_n <sup>*</sup>	page 272
REG_EXPIRE_TIME_n <sup>*</sup>	page 273
REG_INTERVAL_RATE_n	page 273
REG_RTX_INTVL_n	page 273
USE_DEL_REG_OPEN_n	page 273
USE_DEL_REG_CLOSE_n	page 274
SIP_SESSION_TIME_n <sup>*</sup>	page 274
SIP_SESSION_METHOD_n <sup>*</sup>	page 274
SIP_TIMER_T1_n <sup>*</sup>	page 274
SIP_TIMER_T2_n <sup>*</sup>	page 275
SIP_TIMER_T4_n	page 275
SIP_TIMER_B_n	page 275
SIP_TIMER_D_n	page 276
SIP_TIMER_F_n	page 276
SIP_TIMER_H_n	page 276
SIP_TIMER_J_n	page 276
SIP_100REL_ENABLE_n <sup>*</sup>	page 276
SIP_18X_RTX_INTVL_n	page 277
SIP_SUBS_EXPIRE_n	page 277
SUB_INTERVAL_RATE_n	page 277
SUB_RTX_INTVL_n	page 277
SIP_P_PREFERRED_ID_n	page 278
SIP_PRIVACY_n	page 278
ADD_USER_PHONE_n	page 278
SIP_ANM_DISPNAME_n	page 279
SIP_ANM_USERNAME_n	page 279

## 5.1 Configuration File Parameter List

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Parameter Name	Ref.
SIP_ANM_HOSTNAME_n	page 279
SIP_DETECT_SSAF_n <sup>*</sup>	page 279
SIP_RCV_DET_HEADER_n	page 280
SIP_RCV_DET_REQURI_n	page 280
SIP_CONTACT_ON_ACK_n	page 280
VOICE_MESSAGE_AVAILABLE	page 281
SIP_INVITE_EXPIRE_n	page 281
SIP_FOVR_NORSP_n	page 281
SIP_FOVR_MAX_n	page 281
SIP_FOVR_MODE_n	page 282
SIP_FOVR_DURATION_n	page 282
SIP_ADD_ROUTE_n	page 282
SIP_REQURI_PORT_n	page 282
ADD_EXPIRES_HEADER_n	page 283
ADD_TRANSPORT_UDP_n	page 283
SIP_ADD_DIVERSION_n	page 283
TRANSFER_RECALL_TIM	page 284
SIGNAL_COMPRESSION_n	page 284
MAX_BREADTH_n	page 284
MUTIPART_BOUNDARY_DELIMITTER_n	page 284
RINGTON_183_180_ENABLE_n	page 284
SIP_403_REG_SUB_RTX_n	page 285
SIP_FORK_MODE_n	page 285
AKA_AUTHENTICATION_ENABLE_n	page 285
RFC2543_HOLD_ENABLE_n <sup>*</sup>	page 285
SIP_HOLD_ATTRIBUTE_n	page 286
SDP_USER_ID_n	page 286
TELEVNT_PAYLOAD <sup>*</sup>	page 286
HOLD_SOUND_PATH_n	page 286
KEEP_EARLYMEDIA_n	page 287
RFC3327_SUPPORT_PATH	page 287
RFC4244_SUPPORT_HISTORY	page 287
RFC3319_SUPPORT_JOIN	page 287
RFC6947_DRAFT08_ALTC	page 287
RFC5627_SUPPORT_GRUU_n	page 288

Parameter Name	Ref.
<code>ESCAPECODE_CONVERSION</code>	page 288
<code>SIP_REPLACE_ENABLE_n</code>	page 288
<code>SIP_REFRESHER_n</code>	page 288
<code>ENH_FOVR_ENABLE_n</code>	page 289
<code>ENH_FOVR_RANDOM_TIMER_n</code>	page 289
<code>ENH_FOVR_RANDOM_MAX_TIME_n</code>	page 289
<code>ENH_FOVR_RANDOM_MIN_TIME_n</code>	page 289
<code>SIP_INC_INVITE_RTP_MODE_n</code>	page 290
<code>SIP_183_TALK_ENABLE</code>	page 290
<code>SEND_180_ALERT_ENABLE</code>	page 290
<code>INVITE_403_REGSEND_ENABLE_n</code>	page 290
<code>ENH_FOVR_408_ENABLE_n</code>	page 291
<code>ESCAPECODE_CONVERSION_RFC3986</code>	page 291

## SIP-TLS Settings

Parameter Name	Ref.
<code>SIP_TRANSPORT_n</code> <sup>2</sup>	page 291
<code>SIP_TLS_MODE_n</code> <sup>2</sup>	page 291
<code>SIP_TLS_RECONNECT_n</code>	page 292
<code>SIP_TLS_SRV_PREFIX_n</code> <sup>2</sup>	page 292
<code>SIP_TLS_VERIFY_n</code>	page 292
<code>SIP_TLS_ROOT_CERT_PATH</code>	page 292
<code>SIP_TLS_CLIENT_CERT_PATH</code>	page 293
<code>SIP_TLS_PKEY_PATH</code>	page 293
<code>SIP_TLS_RANDOM_PORT</code>	page 293

## CODEC Settings

Parameter Name	Ref.
<code>CODEC_G729_PARAM_n</code>	page 293
<code>CODEC_ENABLEx_n</code> <sup>2</sup>	page 294
<code>CODEC_PRIORITYx_n</code> <sup>2</sup>	page 294
<code>CODEC_G711_REQ</code>	page 295

## DTMF Settings

Parameter Name	Ref.
<code>DTMF_METHOD_n</code> <sup>2</sup>	page 295

## 5.1 Configuration File Parameter List

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Parameter Name	Ref.
OUTBANDDTMF_VOL	page 295
INBANDDTMF_VOL	page 295
DTMF_SIGNAL_LEN	page 296
DTMF_INTDIGIT_TIM	page 296

### RTP/RTCP/RTCP-XR Settings

Parameter Name	Ref.
DSCP_RTP_n <sup>*2</sup>	page 296
DSCP_RTCP_n <sup>*2</sup>	page 296
MAX_DELAY_n	page 296
MIN_DELAY_n	page 297
NOM_DELAY_n	page 297
RTP_PORT_MIN <sup>*2</sup>	page 297
RTP_PORT_MAX <sup>*2</sup>	page 298
RTP_PTIME <sup>*2</sup>	page 298
RTCP_ENABLE_n <sup>*2</sup>	page 298
RTCP_INTVL_n <sup>*2</sup>	page 298
RTCP_SEND_BY_SDPM_n	page 299
RTP_CLOSE_ENABLE_n	page 299
RTCPXR_ENABLE_n <sup>*2</sup>	page 299

### SRTP Settings

Parameter Name	Ref.
SRTP_CONNECT_MODE_n <sup>*2</sup>	page 299
SRTP_MIX_CONFERENCE_ENABLE_n <sup>*2</sup>	page 300
SRTP_MIX_TRANSFER_ENABLE_n <sup>*2</sup>	page 300
SRTP_HELD_CALL_RTP_ENABLE	page 301
SRTP_CALL_MODE_ENABLE	page 301
DISPLAY_SRTP_CALL_ENABLE	page 301
SRTP_VIDEO_CALL_SDPM_ENABLE_n	page 301

### VQ Report by PUBLISH

Parameter Name	Ref.
VREPORT_COLLECTOR_ADDRESS <sup>*2</sup>	page 302
VREPORT_COLLECTOR_PORT <sup>*2</sup>	page 302
VREPORT_SEND <sup>*2</sup>	page 302

Parameter Name	Ref.
<code>ALERT_REPORT_TRIGGER<sup>2</sup></code>	page 302
<code>ALERT_REPORT_MOSQ_CRITICAL<sup>2</sup></code>	page 302
<code>ALERT_REPORT_MOSQ_WARNING<sup>2</sup></code>	page 303
<code>ALERT_REPORT_DELAY_CRITICAL<sup>2</sup></code>	page 303
<code>ALERT_REPORT_DELAY_WARNING<sup>2</sup></code>	page 303
<code>VQREPORT_SIGNAL_COMPRESSION</code>	page 303
<code>VQREPORT_SEND_OPT_CODEC_ENABLE</code>	page 303
<code>VQREPORT_SEND_OPT_NW_CHANGE</code>	page 304

## uaCSTA Settings

Parameter Name	Ref.
<code>UACSTA_ENABLE_n</code>	page 304
<code>UACSTA_UNIQUE_ID</code>	page 304
<code>CSTA_PORT</code>	page 304
<code>CSTA_PRXY_ADDR</code>	page 305
<code>CSTA_PRXY_PORT</code>	page 305
<code>CSTA_RGSTR_ADDR</code>	page 305
<code>CSTA_RGSTR_PORT</code>	page 305
<code>CSTA_REG_EXPIRE_TIME</code>	page 305
<code>CSTA_TRANSPORT</code>	page 305
<code>CSTA_RGSTR_AUTHID</code>	page 306
<code>CSTA_RGSTR_PASS</code>	page 306

## Telephone Settings

Parameter Name	Ref.
<code>POWER_ON_DISPLAY_LOGO_PATH</code>	page 306
<code>FIRSTDIGIT_TIM<sup>2</sup></code>	page 306
<code>INTDIGIT_TIM<sup>2</sup></code>	page 307
<code>POUND_KEY_DELIMITER_ENABLE<sup>2</sup></code>	page 307
<code>RINGTON_SETTING_n<sup>3</sup></code>	page 307
<code>DISPLAY_NAME_REPLACE</code>	page 307
<code>NUMBER_MATCHING_LOWER_DIGIT</code>	page 307
<code>NUMBER_MATCHING_UPPER_DIGIT</code>	page 308
<code>FLASH_RECALL_TERMINATE</code>	page 308
<code>FLASHHOOK_CONTENT_TYPE</code>	page 308
<code>NUM_PLAN_PARKING<sup>2</sup></code>	page 308

## 5.1 Configuration File Parameter List

Parameter Name	Ref.
CALLPARK_KEY_ENABLE <sup>2</sup>	page 308
NUM_PLAN_PARK_RETRIEVING <sup>2</sup>	page 309
IDLE_SOFT_KEY_PARK_RETRIEVING <sup>2</sup>	page 309
HOLD_RECALL_TIM	page 309
HOLD_TRANSFER_OPERATION	page 309
ONHOOK_TRANSFER_ENABLE	page 310
ONHOOK_HOLD_TRNS_ENABLE	page 310
BLIND_TRANSFER_ENABLE	page 310
SYS_LOCK_ENABLE <sup>2</sup>	page 310
SYS_LOCK_PASSWORD <sup>2</sup>	page 310
PAUSE_INPUT_ENABLE	page 311
NUM_PLAN_PICKUP_DIRECT <sup>2</sup>	page 311
NUM_PLAN_BARGE_IN <sup>2</sup>	page 311
DISP_NUM_PHONEBOOK_ENABLE	page 311
WALLPAPER_WAIT_TIME <sup>1</sup>	page 311
CNIP_FROM_ENABLE	page 312
IDLE_DISPLAY_TYPE <sup>3</sup>	page 312
CNIP_CALL_PA1_ENABLE	page 312
SOFT_KEY_LABELx	page 312
SOFT_KEY_QUICK_DIALx	page 313
BLF_DISPLAY_OFF_OUTGOING	page 313
SPLIT_HOLD_TRNS_ENABLE	page 313
NUM_PLAN_PICKUP_GROUP <sup>2</sup>	page 313
PB_QUICK_SEARCH_ENABLE	page 313
CALLPARK_METHOD	page 314
CALL_PARK_PROG_KEY_MODE	page 314
SUBS_CALLPARK_AREA_ENABLE	page 314
RINGER_VOLUME_LEVEL	page 314
RINGER_VOL_OPERATION_ENABLE	page 314

## Flexible Key Settings

Parameter Name	Ref.
FLEX_BUTTON_FACILITY_ACTx <sup>1</sup>	page 315
FLEX_BUTTON_FACILITY_ARGx <sup>1</sup>	page 316
FLEX_BUTTON_LABELx <sup>1</sup>	page 316

Parameter Name	Ref.
FLEX_BUTTON_QUICK_DIALx	page 316
LONG_PRESS_KEY_SETTING_ENABLE	page 316

## DSS Key Settings

Parameter Name	Ref.
DSS_BUTTON_FACILITY_ACTx <sup>*1</sup>	page 317
DSS_BUTTON_FACILITY_ARGx <sup>*1</sup>	page 318
DSS_BUTTON_LABELx <sup>*1</sup>	page 318
DSS_BUTTON_QUICK_DIALx	page 318

## Tone Settings

Parameter Name	Ref.
OUTSIDE_DIAL_TONE_FRQ	page 318
OUTSIDE_DIAL_TONE_GAIN	page 318
OUTSIDE_DIAL_TONE_RPT	page 319
OUTSIDE_DIAL_TONE_TIMING	page 319
CONFIRMATION_TONE5_FRQ	page 319
CONFIRMATION_TONE5_GAIN	page 319
REORDER_TONE_ENABLE	page 319
TONE_LEN_DISCONNECT	page 319
DIAL_TONE1_FRQ <sup>*2</sup>	page 320
DIAL_TONE1_GAIN	page 320
DIAL_TONE1_RPT	page 320
DIAL_TONE1_TIMING <sup>*2</sup>	page 320
DIAL_TONE2_FRQ	page 321
DIAL_TONE2_GAIN	page 321
DIAL_TONE2_RPT	page 321
DIAL_TONE2_TIMING	page 321
DIAL_TONE4_FRQ	page 321
DIAL_TONE4_GAIN	page 322
DIAL_TONE4_RPT	page 322
DIAL_TONE4_TIMING	page 322
BUSY_TONE_FRQ <sup>*2</sup>	page 322
BUSY_TONE_GAIN	page 323
BUSY_TONE_RPT	page 323
BUSY_TONE_TIMING <sup>*2</sup>	page 323

## 5.1 Configuration File Parameter List

Parameter Name	Ref.
REORDER_TONE_FRQ <sup>*2</sup>	page 323
REORDER_TONE_GAIN	page 323
REORDER_TONE_RPT	page 324
REORDER_TONE_TIMING <sup>*2</sup>	page 324
RINGBACK_TONE_FRQ <sup>*2</sup>	page 324
RINGBACK_TONE_GAIN	page 324
RINGBACK_TONE_RPT	page 324
RINGBACK_TONE_TIMING <sup>*2</sup>	page 325
HOLD_ALARM_FRQ	page 325
HOLD_ALARM_GAIN	page 325
CW_TONE1_FRQ	page 325
CW_TONE1_GAIN	page 326
HOLD_TONE_FRQ	page 326
HOLD_TONE_GAIN	page 326
BELL_CORE_PATTERN1_TIMING	page 326
BELL_CORE_PATTERN2_TIMING	page 326
BELL_CORE_PATTERN3_TIMING	page 327
BELL_CORE_PATTERN4_TIMING	page 327
BELL_CORE_PATTERN5_TIMING	page 327
KEY_PAD_TONE <sup>*3</sup>	page 327

## Call Control Settings

Parameter Name	Ref.
DEFAULT_LINE_SELECT <sup>*1</sup>	page 328
ANONYMOUS_CALL_ENABLE_n <sup>*1</sup>	page 328
BLOCK_ANONYMOUS_CALL_ENABLE_n <sup>*1</sup>	page 329
HOTLINE_ENABLE <sup>*2</sup>	page 329
HOTLINE_NUMBER <sup>*2</sup>	page 329
HOTLINE_TIM <sup>*2</sup>	page 329
DISPLAY_NAME_n <sup>*2</sup>	page 329
VM_SUBSCRIBE_ENABLE <sup>*2</sup>	page 330
VM_NUMBER_n <sup>*2</sup>	page 330
VM_SUBSCRIBE_SPECIFIC_n	page 330
DISPLAY_VM_WITH_NUMBER	page 330
DIAL_PLAN_n <sup>*2</sup>	page 331

Parameter Name	Ref.
DIAL_PLAN_NOT_MATCH_ENABLE_n <sup>2</sup>	page 331
DIALPLAN_REPLACE_LOG_ENABLE	page 331
DIALPLAN_MEMORY_DIAL_ENABLE	page 332
MACRODIGIT_TIM <sup>2</sup>	page 332
INTERNATIONAL_ACCESS_CODE <sup>2</sup>	page 332
COUNTRY_CALLING_CODE <sup>2</sup>	page 332
NATIONAL_ACCESS_CODE <sup>2</sup>	page 332
IDLE_SOFT_KEY_A <sup>2</sup>	page 333
IDLE_SOFT_KEY_B <sup>2</sup>	page 333
IDLE_SOFT_KEY_C <sup>2</sup>	page 333
ADMIN_ABILITY_ENABLE <sup>2</sup>	page 334
EMERGENCY_CALLx <sup>2</sup>	page 334
CALL_REJECTIONx <sup>1</sup>	page 334
CLICKTO_ENABLE_n <sup>2</sup>	page 335
SIGNALING_AUTO_ANS_ENABLE_n	page 335
CALLPARK_NOTIFICATION_ENABLE_n <sup>2</sup>	page 335
SHARED_CALL_ENABLE_n <sup>2</sup>	page 335
SHARED_STOP_LINE_SEIZE	page 336
FWD_DND_SYNCHRO_ENABLE_n <sup>2</sup>	page 336
FWD_SYNCHRO_FORCE_DISABLE_n	page 336
BS_EXECUTIVE_SETTING_ENABLE_n <sup>2</sup>	page 337
BS_ASSISTANT_SETTING_ENABLE_n <sup>2</sup>	page 337
MOH_SERVER_URI_n <sup>2</sup>	page 337
FWD_DND_CONTROL_ENABLE	page 337
FWD_DND_SYNCHRO_MODE	page 338
FWD_DND_MISSEDLOG_ENABLE	page 338
HOLD_AND_CALL_ENABLE	page 338
AUTO_CALL_HOLD	page 338
SIP_RESPONSE_CODE_DND	page 338
SIP_RESPONSE_CODE_CALL_REJECT	page 339
CW_ENABLE_n <sup>2</sup>	page 339
RETURN_VOL_SET_DEFAULT_ENABLE	page 339
CONFERENCE_SERVER_URI <sup>2</sup>	page 339
CONF_SERVER_HOLD_ENABLE	page 339

## 5.1 Configuration File Parameter List

Parameter Name	Ref.
RESOURCELIST_URI_n <sup>*2</sup>	page 340
TALKING_SOFT_KEY_A	page 340
TALKING_SOFT_KEY_B	page 340
TALKING_SOFT_KEY_C	page 341
AUTO_ANS_ENABLE <sup>*3</sup>	page 342
AUTO_ANS_OPER_ENABLE	page 342
AUTO_ANS_DEVICE <sup>*3</sup>	page 342
AUTO_ANS_DELAY <sup>*3</sup>	page 343
AUTO_ANS_TYPE <sup>*3</sup>	page 343
RETRIVE_TRANS_HOLD_OPER_CHANGE	page 343
REMOVE_PREFIX_ENABLE	page 343

## Video Communication Settings

Parameter Name	Ref.
DEFAULT_CALL_MODE <sup>*1</sup>	page 344
VIDEO_SCREEN_MODE <sup>*1</sup>	page 344
VIDEO_SEND_IMAGE_ENABLE <sup>*1</sup>	page 344
VIDEO_BIT_RATE <sup>*1</sup>	page 344
VIDEO_BIT_RATE_USE <sup>*1</sup>	page 345
VIDEO_FRAME_RATE <sup>*1</sup>	page 345
VIDEO_IMAGE_SIZE <sup>*1</sup>	page 345
H264_PAYLOAD	page 346

## Network Camera Settings

Parameter Name	Ref.
NWCAMERA_DISPLAY_NAME <sup>x*3</sup>	page 346
NWCAMERA_ADDR <sup>x*3</sup>	page 346
NWCAMERA_PORT <sup>x*3</sup>	page 346
NWCAMERA_USER_ID <sup>x*3</sup>	page 346
NWCAMERA_PASS <sup>x*3</sup>	page 347
NWCAMERA_PAGING_PHONE_NAME <sup>x*3</sup>	page 347
NWCAMERA_PAGING_PHONE_NUMBER <sup>x*3</sup>	page 347
NWCAMERA_LINK_PHONE <sup>m</sup> _NAME <sup>x*3</sup>	page 347
NWCAMERA_LINK_PHONE <sup>m</sup> _NUMBER <sup>x*3</sup>	page 348
NWCAMERA_STREAM <sup>x*3</sup>	page 348

Parameter Name	Ref.
NWCAMERA_ALARM_NOTIFICATION <sup>3</sup>	page 348
NWCAMERA_ALARM_DISARM_TIME <sup>3</sup>	page 348
NWCAMERA_ALARM_PORT <sup>3</sup>	page 348
NWCAMERA_AUTO_CLOSE_ENABLE	page 349
NWCAMERA_OPEN_RECEIVE_CALL	page 349

## Communication Camera Settings

Parameter Name	Ref.
COMM_CAMERA_NUMBERx <sup>1</sup>	page 349
COMM_CAMERA_NAMEx <sup>1</sup>	page 349
COMM_CAMERA_RINGTONE_SETTINGx <sup>1</sup>	page 350
DTMF_CONTROL_UP_CAMERAx	page 350
DTMF_CONTROL_DOWN_CAMERAx	page 350
DTMF_CONTROL_LEFT_CAMERAx	page 350
DTMF_CONTROL_RIGHT_CAMERAx	page 351
DTMF_CONTROL_OPEN_CAMERAx	page 351
DTMF_CONTROL_ZOOMUP_CAMERAx	page 351
DTMF_CONTROL_ZOOMDOWN_CAMERAx	page 351
DTMF_CONTROL_VOICE_CAMERAx	page 352

## Logging Settings

Parameter Name	Ref.
SYSLOG_ADDR	page 352
SYSLOG_PORT	page 352
LOGGING_LEVEL_DNS	page 352
LOGGING_LEVEL_NW1	page 352
LOGGING_LEVEL_FILE	page 352
LOGGING_LEVEL_SIP	page 353
LOGGING_LEVEL_TR069	page 353
LOGGING_LEVEL_STUN	page 353
LOGGING_LEVEL_NW2	page 353
LOGGING_LEVEL_CFGPARSE	page 353
SYSLOG_OUT_START	page 353

## TWAMP Settings

Parameter Name	Ref.
<code>TWAMP_ENABLE</code> <sup>*2</sup>	page 354
<code>TWAMP_CONTROL_PORT</code> <sup>*2</sup>	page 354
<code>TWAMP_TEST_PORT</code> <sup>*2</sup>	page 354
<code>TWAMP_SERVER_WAIT_TIME</code> <sup>*2</sup>	page 354
<code>TWAMP_REFLECTOR_WAIT_TIME</code> <sup>*2</sup>	page 354
<code>TWAMP_PADDING_ZERO</code>	page 355

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

<sup>\*2</sup> This setting can also be configured through the Web user interface.

<sup>\*3</sup> 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-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-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)  
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:

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

## 5.3 System Settings

### 5.3.1 System Settings

#### **FACTORY\_RESET\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the operation of factory default and carrier default.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable factory reset operation</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	Y

#### **BUTTON\_LOCATION\_SETTING (For KX-HDV230/KX-HDV330/KX-HDV430)**

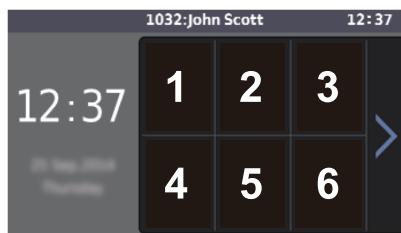
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the order (normal or reverse) of flexible keys and DSS keys.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Normal</li> <li>• 1: Reverse</li> </ul>
<b>Default Value</b>	0

#### **SYS\_HOME\_MENU\_ICONx (For KX-HDV330/KX-HDV430)**

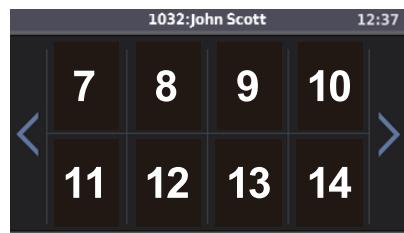
<b>Value Format</b>	INTEGER
<b>Description</b>	x=1~20 Specifies an arrangement of the icons on the Home menu.
<b>Value Range</b>	0: Original position 1: None 2: Function 3: Phonebook 4: Call History 5: Voice Message 6: FWD/DND 7: Application 8: Basic Settings 9: System Settings 10: Advanced Settings 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

<b>Default Value</b>	0
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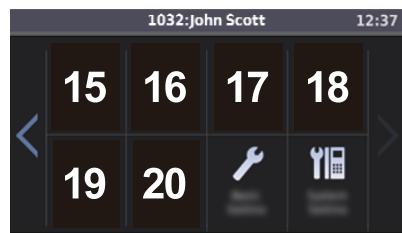
Location numbers (x=1–20) of the icons on the Home menu.



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## FWD\_DND\_MENU\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the "FWD/DND" setting is displayed in MENU and the Web user interface.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Displayed</li> <li>• <b>N:</b> Not displayed</li> </ul>
<b>Default Value</b>	<b>Y</b>

## BLOCK\_CID\_MENU\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable displaying the "Block Caller ID" setting on the phone screen and in the Web user interface.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

## BLOCK\_ANONY\_MENU\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the "Block Anonymous" setting is displayed in MENU and the Web user interface.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Displayed</li> <li>• <b>N:</b> Not displayed</li> </ul>
<b>Default Value</b>	<b>Y</b>

## ANONY\_CALL\_MENU\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the "Anonymous Call" setting is displayed in MENU and the Web user interface.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Displayed</li> <li>• <b>N:</b> Not displayed</li> </ul>

### 5.3.1 System Settings

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Default Value	Y
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#### 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	<ul style="list-style-type: none"><li>• Y: Enable dialing by using '#'</li><li>• N: Disable</li></ul>
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	<ul style="list-style-type: none"><li>• Y: Displayed</li><li>• N: Not displayed</li></ul>
Default Value	N

#### DISCLOSE\_FUNCTION\_ENABLE (For KX-HDV130/KX-HDV230)

Value Format	BOOLEAN
Description	Specifies whether to disclose functions and some keys for HOTEL telephone.
Value Range	<ul style="list-style-type: none"><li>• Y: Enable to disclose</li><li>• N: Disable</li></ul>
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	<ul style="list-style-type: none"><li>• Y: Enable Voice Mail function</li><li>• N: Disable</li></ul>
Default Value	Y

**DISPLAY\_CALL\_KEY\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether call information is displayed on Line and BLF program/DSS keys.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Displayed</li> <li>• <b>N:</b> Not displayed</li> </ul>
<b>Default Value</b>	<b>N</b>

**LCD\_SCREEN\_TIMEOUT (For KX-HDV330/KX-HDV430)**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the length of time before the LCD backlight turns off when the unit is idle.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: 30 sec</li> <li>• 1: 1 min</li> <li>• 2: 5 min</li> <li>• 3: 10 min</li> <li>• 4: 30 min</li> <li>• 5: 60 min</li> <li>• 6: 120 min</li> <li>• 7: 180 min</li> <li>• 8: 300 min</li> <li>• 9: Always On</li> </ul>
<b>Default Value</b>	<b>1</b>

**LCD\_ACTIVE\_LEVEL (For KX-HDV330/KX-HDV430)**

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

**LCD\_INACTIVE\_LEVEL (For KX-HDV330/KX-HDV430)**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the backlight level of the LCD when it is inactive.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Off</li> <li>• 1: Low</li> </ul>
<b>Default Value</b>	<b>0</b>

**DSS\_LCD\_ACTIVATION (For KX-HDV330/KX-HDV430)**

<b>Value Format</b>	INTEGER
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### 5.3.1 System Settings

<b>Description</b>	Specifies the activation of the backlight of DSS units' LCD.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 0: Off</li><li>• 1: On</li><li>• 2: Auto</li></ul>
<b>Default Value</b>	2

### DSS\_LCD\_BACKLIGHT (For KX-HDV330/KX-HDV430)

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

### DSS\_LCD\_CONTRAST (For KX-HDV330/KX-HDV430)

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

### CALL\_SETTINGS\_MENU\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the "Call Settings" setting is displayed in MENU and the Web user interface.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Displayed</li><li>• <b>N</b>: Not displayed</li></ul>
<b>Default Value</b>	<b>Y</b>

### ECO\_MODE\_MENU\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the "ECO Mode" setting is displayed under MENU.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable displaying the ECO Mode function under MENU.</li><li>• <b>N</b>: Disable</li></ul>
<b>Default Value</b>	<b>Y</b>

### NOTIFICATION\_MENU\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to display the notification settings under MENU.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Display the notification settings</li><li>• <b>N</b>: Do not display</li></ul>
<b>Default Value</b>	<b>Y</b>

## NOTIFY\_MISSEDCALL\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to display 'Missed Calls' on the screen in standby mode.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable displaying 'Missed Calls' in standby mode.</li> <li><b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>
<b>Web User Interface Reference</b>	Missed Call Notification - Message

## NOTIFY\_MISSEDCALL\_LED\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the LED is used to indicate a missed call
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable LED indication for a missed call.</li> <li><b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>
<b>Web User Interface Reference</b>	Missed Call Notification - LED

## NOTIFY\_VOICEMAIL\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to display 'Voice MSG' on the screen in standby mode.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable displaying 'Voice MSG' in standby mode.</li> <li><b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>
<b>Web User Interface Reference</b>	Voice Message Notification - Message

## NOTIFY\_VOICEMAIL\_LED\_ENABLE

<b>Value Format</b>	BOOLEAN
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### 5.3.1 System Settings

<b>Description</b>	Specifies whether the LED is used to indicate a missed call
<b>Note</b>	<ul style="list-style-type: none"><li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li></ul>
<b>Value Range</b>	<ul style="list-style-type: none"><li><b>Y</b>: Enable LED indication for a missed call.</li><li><b>N</b>: Disable</li></ul>
<b>Default Value</b>	<b>Y</b>
<b>Web User Interface Reference</b>	Voice Message Notification - LED

## NOTIFY\_VOICEMAIL\_ALARM\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether an alarm sound is used to indicate a new voice message.
<b>Note</b>	<ul style="list-style-type: none"><li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li></ul>
<b>Value Range</b>	<ul style="list-style-type: none"><li><b>Y</b>: Enable alarms sound for voice messages.</li><li><b>N</b>: Disable</li></ul>
<b>Default Value</b>	<b>Y</b>
<b>Web User Interface Reference</b>	Voice Message Notification - Alarm

## NOTIFY\_NETWORKCAMERA\_ENABLE (For KX-HDV430)

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to display the Network Camera message icon on the screen.
<b>Note</b>	<ul style="list-style-type: none"><li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li></ul>
<b>Value Range</b>	<ul style="list-style-type: none"><li><b>Y</b>: Enable displaying the icon.</li><li><b>N</b>: Disable</li></ul>
<b>Default Value</b>	<b>Y</b>
<b>Web User Interface Reference</b>	Network Camera Notification - Message (For KX-HDV430)

## NOTIFY\_NETWORKCAMERA\_LED\_ENABLE (For KX-HDV430)

<b>Value Format</b>	BOOLEAN
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<b>Description</b>	Specifies whether the LED is used to indicate a Network Camera alert.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable LED indication for Network Camera alerts.</li> <li><b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>
<b>Web User Interface Reference</b>	Network Camera Notification - LED (For KX-HDV430)

### NOTIFY\_NETWORKCAMERA\_ALARM\_ENABLE (For KX-HDV430)

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether an alarm sound is used to indicate a Network Camera alert.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable alarms for Network Camera alerts.</li> <li><b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>
<b>Web User Interface Reference</b>	Network Camera Notification - Alarm (For KX-HDV430)

### NOTIFICATION\_ALARM\_TYPE

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether a voice mail alarm notification is used only the first time or every time.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "NOTIFICATION_MENU_ENABLE" is set to "Y".</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>0:</b> First time only</li> <li><b>1:</b> Every time</li> </ul>
<b>Default Value</b>	<b>0</b>

### CODEC\_VAD\_CNG\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the VAD and CNG functions. (VAD: Voice Activity Detector, CNG: Comfort Noise Generator)
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable the VAD and CNG functions</li> <li><b>N:</b> Disable</li> </ul>

### 5.3.1 System Settings

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Default Value	N
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#### 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	<ul style="list-style-type: none"><li>• <b>Y:</b> Enable displaying the "Diversion" information</li><li>• <b>N:</b> Disable</li></ul>
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	<ul style="list-style-type: none"><li>• 0: Normal display 1</li><li>• 1: Normal display 2</li><li>• 2: Line display</li><li>• 3: Combined display</li></ul>
Default Value	0

#### FUNCTION\_DISPLAY\_TYPE (For KX-HDV330/KX-HDV430)

Value Format	INTEGER
Description	Specifies the number and layout of the function key pages.
Value Range	<ul style="list-style-type: none"><li>• 0: 8 items x 3 pages</li><li>• 1: 12 items x 2 pages</li></ul>
Default Value	0

## **FOCUS\_OPERATION\_ENABLE (For KX-HDV330/KX-HDV430)**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to change the focus or seize the line when you tap a line on the line display or combined display.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Change the focus</li> <li>• <b>N:</b> Seize the line</li> </ul>
<b>Default Value</b>	<b>N</b>

## **INCOMING\_DISPLAY\_ENABLE (For KX-HDV330/KX-HDV430)**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable displaying the details screen for incoming calls on the line display and combined display when there is an incoming call.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable the detail screen for incoming calls</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

## **DISPLAY\_AUTO\_CHANGE\_ENABLE (For KX-HDV330/KX-HDV430)**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable switching automatically to the line display or combined display when there are 2 or more active calls.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable automatic switching</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

## **NOTIFY\_FUNC\_KEY\_ENABLE (For KX-HDV230/KX-HDV330/KX-HDV430)**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable notification of changes in the state of the function keys.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable notification</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

## **NOTIFY\_DSS\_KEY\_ENABLE (For KX-HDV230/KX-HDV330/KX-HDV430)**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable notification of changes in the state of the DSS keys.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable notification</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

### 5.3.1 System Settings

#### IDLE\_SOFT\_KEY\_1 (For KX-HDV330/KX-HDV430)

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the function of soft key 1 on the line display or combined display in standby mode.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 1: Call</li><li>• 2: Phonebook</li><li>• 3: Call History</li><li>• 4: Function</li><li>• 5: Park (Used when performing Park Retrieve)</li><li>• 6: ACD</li><li>• 7: Call Center/Call Centre</li><li>• 8: My Phone</li><li>• 9: Presence</li><li>• 10: FWD/DND</li><li>• 11: Paging</li><li>• 12: Group Pickup</li><li>• 13: Basic Settings</li><li>• 14: System Settings</li><li>• 15: Advanced Settings</li><li>• 16: Application</li><li>• 17: Network Camera (For KX-HDV430)</li><li>• 18: Comm. Camera (For KX-HDV430)</li></ul>
<b>Note</b>	<p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"><li>– Park: CALLPARK_NOTIFICATION_ENABLE_n</li><li>– ACD: ACD_ENABLE_n</li><li>– Call Center/Call Centre: CALL_CENTER_ENABLE_n</li><li>– My Phone: UC_ENABLE</li><li>– Presence: UC_ENABLE</li><li>– Paging: MPAGE_FUNCKEY_ENABLE</li><li>– Application: XMLAPP_ENABLE</li></ul>
<b>Default Value</b>	1

#### IDLE\_SOFT\_KEY\_2 (For KX-HDV330/KX-HDV430)

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the function of soft key 2 on the line display or combined display in standby mode.

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 1: Call</li> <li>• 2: Phonebook</li> <li>• 3: Call History</li> <li>• 4: Function</li> <li>• 5: Park (Used when performing Park Retrieve)</li> <li>• 6: ACD</li> <li>• 7: Call Center/Call Centre</li> <li>• 8: My Phone</li> <li>• 9: Presence</li> <li>• 10: FWD/DND</li> <li>• 11: Paging</li> <li>• 12: Group Pickup</li> <li>• 13: Basic Settings</li> <li>• 14: System Settings</li> <li>• 15: Advanced Settings</li> <li>• 16: Application</li> <li>• 17: Network Camera (For KX-HDV430)</li> <li>• 18: Comm. Camera (For KX-HDV430)</li> </ul>
<b>Note</b>	<p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> <li>– Park: CALLPARK_NOTIFICATION_ENABLE_n</li> <li>– ACD: ACD_ENABLE_n</li> <li>– Call Center/Call Centre: CALL_CENTER_ENABLE_n</li> <li>– My Phone: UC_ENABLE</li> <li>– Presence: UC_ENABLE</li> <li>– Paging: MPAGE_FUNCKEY_ENABLE</li> <li>– Application: XMLAPP_ENABLE</li> </ul>
<b>Default Value</b>	2

### IDLE\_SOFT\_KEY\_3 (For KX-HDV330/KX-HDV430)

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

### 5.3.1 System Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li>• 1: Call</li><li>• 2: Phonebook</li><li>• 3: Call History</li><li>• 4: Function</li><li>• 5: Park (Used when performing Park Retrieve)</li><li>• 6: ACD</li><li>• 7: Call Center/Call Centre</li><li>• 8: My Phone</li><li>• 9: Presence</li><li>• 10: FWD/DND</li><li>• 11: Paging</li><li>• 12: Group Pickup</li><li>• 13: Basic Settings</li><li>• 14: System Settings</li><li>• 15: Advanced Settings</li><li>• 16: Application</li><li>• 17: Network Camera (For KX-HDV430)</li><li>• 18: Comm. Camera (For KX-HDV430)</li></ul>
<b>Note</b>	<p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"><li>– Park: CALLPARK_NOTIFICATION_ENABLE_n</li><li>– ACD: ACD_ENABLE_n</li><li>– Call Center/Call Centre: CALL_CENTER_ENABLE_n</li><li>– My Phone: UC_ENABLE</li><li>– Presence: UC_ENABLE</li><li>– Paging: MPAGE_FUNCKEY_ENABLE</li><li>– Application: XMLAPP_ENABLE</li></ul>
<b>Default Value</b>	3

### IDLE\_SOFT\_KEY\_4 (For KX-HDV330/KX-HDV430)

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

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 1: Call</li> <li>• 2: Phonebook</li> <li>• 3: Call History</li> <li>• 4: Function</li> <li>• 5: Park (Used when performing Park Retrieve)</li> <li>• 6: ACD</li> <li>• 7: Call Center/Call Centre</li> <li>• 8: My Phone</li> <li>• 9: Presence</li> <li>• 10: FWD/DND</li> <li>• 11: Paging</li> <li>• 12: Group Pickup</li> <li>• 13: Basic Settings</li> <li>• 14: System Settings</li> <li>• 15: Advanced Settings</li> <li>• 16: Application</li> <li>• 17: Network Camera (For KX-HDV430)</li> <li>• 18: Comm. Camera (For KX-HDV430)</li> </ul>
<b>Note</b>	<p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> <li>– Park: CALLPARK_NOTIFICATION_ENABLE_n</li> <li>– ACD: ACD_ENABLE_n</li> <li>– Call Center/Call Centre: CALL_CENTER_ENABLE_n</li> <li>– My Phone: UC_ENABLE</li> <li>– Presence: UC_ENABLE</li> <li>– Paging: MPAGE_FUNCKEY_ENABLE</li> <li>– Application: XMLAPP_ENABLE</li> </ul>
<b>Default Value</b>	4

## FORWARD\_INCOMING\_SOFTKEY\_ENABLE (For KX-HDV330/KX-HDV430)

<b>Value Format</b>	BOOLEAN
<b>Description</b>	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.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable displaying the soft key</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

### 5.3.1 System Settings

#### SHARED\_LINE\_ICON\_ENABLE (For KX-HDV330/KX-HDV430)

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to display an icon instead of the index number on shared lines on the line display or combined display.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> Enable displaying the icon</li><li>• <b>N:</b> Disable</li></ul>
<b>Default Value</b>	<b>N</b>

#### TALKING\_SOFT\_KEY\_1 (For KX-HDV330/KX-HDV430)

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the function of soft key 1 while on a call on the line display or combined display.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 0: Original</li><li>• 1: Off</li><li>• 2: Blind (Used when performing Blind Transfer)</li><li>• 3: Park (Used when performing Call Park)</li><li>• 4: Private Hold</li><li>• 5: Call Center/Call Centre</li><li>• 6: Phonebook</li><li>• 7: Call History</li><li>• 8: Function</li><li>• 9: Flash/Recall</li><li>• 10: Call (Video Call (For KX-HDV430) or Call)</li></ul>
<b>Note</b>	The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting. <ul style="list-style-type: none"><li>– Blind: BLIND_TRANSFER_ENABLE</li><li>– Park: CALLPARK_KEY_ENABLE</li><li>– Private Hold: PRIVATE_HOLD_ENABLE</li></ul>
<b>Default Value</b>	0

#### TALKING\_SOFT\_KEY\_2 (For KX-HDV330/KX-HDV430)

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

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Original</li> <li>• 1: Off</li> <li>• 2: Blind (Used when performing Blind Transfer)</li> <li>• 3: Park (Used when performing Call Park)</li> <li>• 4: Private Hold</li> <li>• 5: Call Center/Call Centre</li> <li>• 6: Phonebook</li> <li>• 7: Call History</li> <li>• 8: Function</li> <li>• 9: Flash/Recall</li> <li>• 10: Call (Video Call (For KX-HDV430) or Call)</li> </ul>
<b>Note</b>	<p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> <li>– Blind: BLIND_TRANSFER_ENABLE</li> <li>– Park: CALLPARK_KEY_ENABLE</li> <li>– Private Hold: PRIVATE_HOLD_ENABLE</li> </ul>
<b>Default Value</b>	0

### TALKING\_SOFT\_KEY\_3 (For KX-HDV330/KX-HDV430)

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

### 5.3.1 System Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li>• 0: Original</li><li>• 1: Off</li><li>• 2: Blind (Used when performing Blind Transfer)</li><li>• 3: Park (Used when performing Call Park)</li><li>• 4: Private Hold</li><li>• 5: Call Center/Call Centre</li><li>• 6: Phonebook</li><li>• 7: Call History</li><li>• 8: Function</li><li>• 9: Flash/Recall</li><li>• 10: Call (Video Call (For KX-HDV430) or Call)</li></ul>
<b>Note</b>	<p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"><li>– Blind: BLIND_TRANSFER_ENABLE</li><li>– Park: CALLPARK_KEY_ENABLE</li><li>– Private Hold: PRIVATE_HOLD_ENABLE</li></ul>
<b>Default Value</b>	0

### TALKING\_SOFT\_KEY\_4 (For KX-HDV330/KX-HDV430)

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

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Original</li> <li>• 1: Off</li> <li>• 2: Blind (Used when performing Blind Transfer)</li> <li>• 3: Park (Used when performing Call Park)</li> <li>• 4: Private Hold</li> <li>• 5: Call Center/Call Centre</li> <li>• 6: Phonebook</li> <li>• 7: Call History</li> <li>• 8: Function</li> <li>• 9: Flash/Recall</li> <li>• 10: Call (Video Call (For KX-HDV430) or Call)</li> </ul>
<b>Note</b>	<p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> <li>– Blind: BLIND_TRANSFER_ENABLE</li> <li>– Park: CALLPARK_KEY_ENABLE</li> <li>– Private Hold: PRIVATE_HOLD_ENABLE</li> </ul>
<b>Default Value</b>	0

## DELAY\_RING\_TIME\_n

<b>Parameter Name Example</b>	For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the length of time, in seconds, until the unit rings.
<b>Value Range</b>	0–30 0: Disable
<b>Default Value</b>	0

## OFF\_HOOK\_MONITOR\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the Off-hook Monitor function.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>y</b>: Enable Off-hook Monitor</li> <li>• <b>n</b>: Disable</li> </ul>
<b>Default Value</b>	<b>y</b>

## PRIVATE\_HOLD\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable "Private Hold".

### 5.3.1 System Settings

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<b>Value Range</b>	<ul style="list-style-type: none"><li><b>y</b>: Enable private hold</li><li><b>n</b>: Disable</li></ul>
<b>Default Value</b>	<b>n</b>
<b>Web User Interface Reference</b>	Private Hold

## **CONF\_OWNER\_OUT\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	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).
<b>Value Range</b>	<ul style="list-style-type: none"><li><b>y</b>: Enable Unattended Conference</li><li><b>n</b>: Disable</li></ul>
<b>Default Value</b>	<b>n</b>

## **PCAP\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable packet capturing using the Wireshark utility (PCAP Remote).
<b>Value Range</b>	<ul style="list-style-type: none"><li><b>y</b>: Enable PCAP Remote</li><li><b>n</b>: Disable</li></ul>
<b>Default Value</b>	<b>n</b>

## **PCAP\_REMOTE\_ID**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the ID of the IP phone whose packets will be captured using the Wireshark utility (PCAP Remote).
<b>Value Range</b>	1–16 characters
<b>Default Value</b>	Empty string

## **PCAP\_REMOTE\_PASS**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the password of the IP phone whose packets will be captured using the Wireshark utility (PCAP Remote).
<b>Value Range</b>	0, 6–64 characters
<b>Default Value</b>	Empty string

## **PCAP\_REMOTE\_PORT**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port of the IP phone to use for capturing packets using the Wireshark utility (PCAP Remote).

<b>Value Range</b>	1–65535
<b>Default Value</b>	2002

**DTMF\_OUT\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether received outband DTMF signals are output audibly.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable audible outband DTMF</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

**CANCEL\_OPERATION\_MODE**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the operation of the [⊗/ <b>CANCEL</b> ] button when a line is in use.
<b>Value Range</b>	0: Cancel the current operation 1: Return to standby mode
<b>Default Value</b>	0

**5.3.2 Basic Network Settings****IP\_ADDR\_MODE**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the IP addressing mode.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: IPv4</li> <li>• 1: IPv6</li> <li>• 2: IPv4&amp;IPv6</li> </ul>
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	IP Addressing Mode

**CONNECTION\_TYPE**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to assign the IP address automatically (DHCP) or manually (static) for IPv4.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Static</li> <li>• 1: DHCP</li> </ul>
<b>Default Value</b>	1
<b>Web User Interface Reference</b>	Connection Mode

**STATIC\_IP\_ADDRESS**

<b>Value Format</b>	IPADDR
---------------------	--------

### 5.3.2 Basic Network Settings

<b>Description</b>	Specifies the IP address for the unit for IPv4.
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>• This setting is available only when "CONNECTION_TYPE" is set to "0".</li> <li>• When you specify this parameter, you must specify "STATIC_SUBNET" together in a configuration file.</li> </ul>
<b>Value Range</b>	Max. 15 characters n.n.n.n [n=0–255]
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	IP Address

### STATIC\_SUBNET

<b>Value Format</b>	IPADDR
<b>Description</b>	Specifies the subnet mask for IPv4.
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>• This setting is available only when "CONNECTION_TYPE" is set to "0".</li> <li>• When you specify this parameter, you must specify "STATIC_IP_ADDRESS" together in a configuration file.</li> </ul>
<b>Value Range</b>	Max. 15 characters n.n.n.n [n=0–255]
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Subnet Mask

### STATIC\_GATEWAY

<b>Value Format</b>	IPADDR
<b>Description</b>	Specifies the IP address of the default gateway for the IPv4 network where the unit is connected.
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>• This setting is available only when "CONNECTION_TYPE" is set to "0".</li> <li>• When you specify this parameter, you must specify "STATIC_IP_ADDRESS" and "STATIC_SUBNET" together in a configuration file.</li> </ul>
<b>Value Range</b>	Max. 15 characters n.n.n.n [n=0–255]
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Default Gateway

### USER\_DNS1\_ADDR

<b>Value Format</b>	IPADDR
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<b>Description</b>	Specifies the IP address of the primary DNS server for IPv4.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "CONNECTION_TYPE" is set to "0".</li> </ul>
<b>Value Range</b>	Max. 15 characters n.n.n [n=0–255]
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	DNS1

## USER\_DNS2\_ADDR

<b>Value Format</b>	IPADDR
<b>Description</b>	Specifies the IP address of the secondary DNS server for IPv4.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "CONNECTION_TYPE" is set to "0".</li> </ul>
<b>Value Range</b>	Max. 15 characters n.n.n [n=0–255]
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	DNS2

## DHCP\_DNS\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable using the DNS server obtained by DHCPv4.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "CONNECTION_TYPE" is set to "1".</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>y:</b> Not use (use static DNS)</li> <li><b>n:</b> Use DNS obtained by DHCPv4</li> </ul>
<b>Default Value</b>	<b>n</b>
<b>Web User Interface Reference</b>	Auto DNS via DHCP

## DHCP\_HOST\_NAME

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the host name to option12 in DHCPv4 or option15 in DHCPv6.

### 5.3.2 Basic Network Settings

<b>Value Range</b>	Max. 64 characters
<b>Note</b>	
	<ul style="list-style-type: none"><li>If "{MODEL}" is included in this parameter, it will be replaced with the unit's model name.</li></ul>
<b>Default Value</b>	{MODEL}
<b>Web User Interface Reference</b>	DHCP Host Name

## DHCP\_VENDOR\_CLASS

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the vendor class to option60 in DHCPv4 or option16 in DHCPv6.
<b>Value Range</b>	Max. 64 characters
<b>Default Value</b>	Panasonic

## CONNECTION\_TYPE\_IPV6

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the IP address setting mode for IPv6.
<b>Value Range</b>	<ul style="list-style-type: none"><li>0: Static</li><li>1: DHCP</li><li>2: Stateless Autoconfiguration</li></ul>
<b>Default Value</b>	1
<b>Web User Interface Reference</b>	Connection Mode

## STATIC\_IP\_ADDRESS\_IPV6

<b>Value Format</b>	IPADDR-V6
<b>Description</b>	Specifies the IP address for IPv6.
<b>Value Range</b>	Max. 39 characters n:n:n:n:n:n:n [n=0-FFFF, abbreviation available]
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	IP Address

## PREFIX\_IPV6

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the prefix for IPv6.
<b>Value Range</b>	0–128
<b>Default Value</b>	64
<b>Web User Interface Reference</b>	Prefix

**STATIC\_GATEWAY\_IPV6**

<b>Value Format</b>	IPADDR-V6
<b>Description</b>	Specifies the default gateway for IPv6.
<b>Value Range</b>	Max. 39 characters n:n:n:n:n:n:n [n=0xFFFF, abbreviation available]
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Default Gateway

**USER\_DNS1\_ADDR\_IPV6**

<b>Value Format</b>	IPADDR-V6
<b>Description</b>	Specifies the IP address of primary DNS server for IPv6.
<b>Value Range</b>	Max. 39 characters n:n:n:n:n:n:n [n=0xFFFF, abbreviation available]
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	DNS1

**USER\_DNS2\_ADDR\_IPV6**

<b>Value Format</b>	IPADDR-V6
<b>Description</b>	Specifies the IP address of secondary DNS server for IPv6.
<b>Value Range</b>	Max. 39 characters n:n:n:n:n:n:n [n=0xFFFF, abbreviation available]
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	DNS2

**DHCP\_DNS\_ENABLE\_IPV6**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable using the DNS server obtained by DHCPv6.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Not use (use static DNS)</li> <li>• <b>N:</b> Use DNS obtained by DHCPv6</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Auto DNS via DHCP

**5.3.3 Ethernet Port Settings****PHY\_MODE\_LAN**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the link speed and duplex mode of the LAN port.

### 5.3.3 Ethernet Port Settings

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 1: Auto</li> <li>• 2: 100Mbps/Full Duplex</li> <li>• 3: 100Mbps/Half Duplex</li> <li>• 4: 10Mbps/Full Duplex</li> <li>• 5: 10Mbps/Half Duplex</li> </ul>
<b>Default Value</b>	1
<b>Web User Interface Reference</b>	LAN Port

### PHY\_MODE\_PC

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the link speed and duplex mode of the PC port.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 1: Auto</li> <li>• 2: 100Mbps/Full Duplex</li> <li>• 3: 100Mbps/Half Duplex</li> <li>• 4: 10Mbps/Full Duplex</li> <li>• 5: 10Mbps/Half Duplex</li> </ul>
<b>Default Value</b>	1
<b>Web User Interface Reference</b>	PC Port

### VLAN\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to use the VLAN feature to perform VoIP communication securely.
<b>Note</b>	<ul style="list-style-type: none"> <li>• You should specify "Y" for only one of "LLDP_ENABLE" or "VLAN_ENABLE".</li> </ul> <p>If "Y" is specified for two or more of the parameters above, the settings are prioritized as follows: "VLAN_ENABLE" &gt; "LLDP_ENABLE". Therefore, if "Y" is specified for both "VLAN_ENABLE" and "LLDP_ENABLE", the VLAN-related settings are used.</p>
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Y: Enable</li> <li>• N: Disable</li> </ul>
<b>Default Value</b>	N
<b>Web User Interface Reference</b>	Enable VLAN

### VLAN\_ID\_IP\_PHONE

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the VLAN ID for this unit.
<b>Value Range</b>	0–4094

<b>Default Value</b>	2
<b>Web User Interface Reference</b>	IP Phone VLAN ID

### VLAN\_PRI\_IP\_PHONE

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

### VLAN\_ID\_PC

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

### VLAN\_PRI\_PC

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

### VLAN\_EGTAG\_PC\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable removing tag information from packets to the PC port when VLAN is enabled.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>

### LLDP\_ENABLE

<b>Value Format</b>	BOOLEAN
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### 5.3.3 Ethernet Port Settings

<b>Description</b>	Specifies whether to enable or disable the LLDP-MED feature.
<b>Note</b>	<ul style="list-style-type: none"> <li>You should specify "Y" for only one of "<b>LLDP_ENABLE</b>", or "<b>VLAN_ENABLE</b>". If "Y" is specified for two or more of the parameters above, the settings are prioritized as follows: <b>VLAN_ENABLE</b> &gt; <b>LLDP_ENABLE</b>. Therefore, if "Y" is specified for both "<b>VLAN_ENABLE</b>" and "<b>LLDP_ENABLE</b>", the VLAN-related settings are used.</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y</b>: Enable LLDP-MED</li> <li><b>N</b>: Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>
<b>Web User Interface Reference</b>	Enable LLDP

### LLDP\_INTERVAL

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the interval, in seconds, between sending each LLDP frame.
<b>Value Range</b>	1–3600
<b>Default Value</b>	30
<b>Web User Interface Reference</b>	Packet Interval

### LLDP\_VLAN\_ID\_PC

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

### LLDP\_VLAN\_PRI\_PC

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

### CDP\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the CDP feature.

<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable CDP</li> <li><b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable CDP

### CDP\_INTERVAL

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the interval, in seconds, between sending each CDP frames.
<b>Value Range</b>	1–3600
<b>Default Value</b>	30
<b>Web User Interface Reference</b>	Packet Interval

## 5.3.4 Pre-Provisioning Settings

### SIPPNP\_PROV\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the SIP PnP provisioning.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable SIP PnP provisioning</li> <li><b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

### OPTION66\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the DHCP option 66 provisioning.  <b>Note</b> <ul style="list-style-type: none"> <li>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.</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable DHCP option66 provisioning</li> <li><b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

### OPTION159\_PROV\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the DHCP option159 provisioning.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable DHCP option159 provisioning</li> <li><b>N:</b> Disable</li> </ul>

### 5.3.5 Provisioning Settings

Default Value	Y
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#### OPTION160\_PROV\_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable or disable the DHCP option160 provisioning.
Value Range	<ul style="list-style-type: none"><li>• Y: Enable DHCP option160 provisioning</li><li>• N: Disable</li></ul>
Default Value	Y

#### DHCPV6\_OPTION17\_PROV\_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable or disable DHCPv6 option17 provisioning.
Value Range	<ul style="list-style-type: none"><li>• Y: Enable DHCPv6 option17 provisioning</li><li>• N: Disable</li></ul>
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
	<b>Note</b> <ul style="list-style-type: none"><li>• 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".</li><li>• For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li></ul>
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.

<b>Value Range</b>	Max. 384 characters
<b>Note</b>	<ul style="list-style-type: none"> <li>If this URL ends with "/" (slash), "<b>{MODEL}.cfg</b>" is automatically added at the end of the URL. For example, <b>CFG_PRODUCT_FILE_PATH="http://host/ dir/"</b> becomes <b>CFG_PRODUCT_FILE_PATH="http:// host/dir/{MODEL}.cfg"</b>.</li> <li>For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li> </ul>
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Product File URL

## CFG\_MASTER\_FILE\_PATH

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URL of the master configuration file, which is used when all units need the same settings.
<b>Value Range</b>	Max. 384 characters
<b>Note</b>	<ul style="list-style-type: none"> <li>If this URL ends with "/" (slash), "<b>sip.cfg</b>" is automatically added at the end of the URL. For example, <b>CFG_MASTER_FILE_PATH="http://host/ dir/"</b> becomes <b>CFG_MASTER_FILE_PATH="http:// host/dir/sip.cfg"</b>.</li> <li>For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li> </ul>
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Master File URL

## CFG\_CYCLIC

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the unit periodically checks for updates of configuration files.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>y</b>: Enable periodic synchronization</li> <li><b>n</b>: Disable</li> </ul>
<b>Default Value</b>	<b>n</b>
<b>Web User Interface Reference</b>	Cyclic Auto Resync

## CFG\_CYCLIC\_INTVL

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the interval, in minutes, between periodic checks for updates of the configuration files.
<b>Value Range</b>	1–40320
<b>Default Value</b>	10080

### 5.3.5 Provisioning Settings

Web User Interface Reference	Resync Interval
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## CFG\_RESYNC\_TIME

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the time (hour:minute) that the unit checks for updates of configuration files.
<b>Value Range</b>	00:00–23:59
	<b>Note</b> <ul style="list-style-type: none"><li>• 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.</li><li>• If the value for this setting is an empty string, downloading the configuration files at the fixed time are disabled.</li></ul>
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Time Resync

## CFG\_RTRY\_INTVL

<b>Value Format</b>	INTEGER
<b>Description</b>	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.
	<b>Note</b> <ul style="list-style-type: none"><li>• This setting is available only when "CFG_CYCLIC" is set to "Y".</li></ul>
<b>Value Range</b>	1–1440
<b>Default Value</b>	30

## CFG\_RESYNC\_FROM\_SIP

<b>Value Format</b>	STRING
<b>Description</b>	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.
<b>Value Range</b>	Max. 15 characters
<b>Default Value</b>	check-sync
<b>Web User Interface Reference</b>	Header Value for Resync Event

## CFG\_RESYNC\_ACTION

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the value of the action after received resync NOTIFY.

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Provisioning</li> <li>• 1: TR-069 Inform</li> <li>• 2: Reboot</li> </ul>
<b>Default Value</b>	0

## CFG\_FILE\_KEY2

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the encryption key (password) used to decrypt configuration files.
<b>Note</b>	<ul style="list-style-type: none"> <li>• If the extension of the configuration file is ".e2c", the configuration file will be decrypted using this key.</li> </ul>
<b>Value Range</b>	32 characters
<b>Note</b>	<ul style="list-style-type: none"> <li>• If an empty string is set for this parameter, decryption with this value is disabled.</li> </ul>
<b>Default Value</b>	Empty string

## CFG\_FILE\_KEY3

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the encryption key (password) used to decrypt configuration files.
<b>Note</b>	<ul style="list-style-type: none"> <li>• If the extension of the configuration file is ".e3c", the configuration file will be decrypted using this key.</li> </ul>
<b>Value Range</b>	32 characters
<b>Note</b>	<ul style="list-style-type: none"> <li>• If an empty string is set for this parameter, decryption with this value is disabled.</li> </ul>
<b>Default Value</b>	Empty string

## CFG\_FILE\_KEY\_LENGTH

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the key lengths in bits used to decrypt configuration files.
<b>Value Range</b>	128, 192, 256
<b>Default Value</b>	192

## CFG\_ROOT\_CERTIFICATE\_PATH

<b>Value Format</b>	STRING
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### 5.3.5 Provisioning Settings

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<b>Description</b>	Specifies the URI where the root certificate is stored.  <b>Note</b> <ul style="list-style-type: none"><li>• Changing this setting may require restarting the unit.</li></ul>
<b>Value Range</b>	Max. 384 characters  <b>Note</b> <ul style="list-style-type: none"><li>• For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li></ul>
<b>Default Value</b>	Empty string

## CFG\_CLIENT\_CERT\_PATH

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URI where the client certificate is stored.
<b>Value Range</b>	Max. 384 characters  <b>Note</b> <ul style="list-style-type: none"><li>• For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li></ul>
<b>Default Value</b>	Empty string

## CFG\_PKEY\_PATH

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URI where the private key is stored.
<b>Value Range</b>	Max. 384 characters  <b>Note</b> <ul style="list-style-type: none"><li>• For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li></ul>
<b>Default Value</b>	Empty string

## HTTP\_SSL\_VERIFY

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to enable the verification of the root certificate.

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: No verification of root certificate</li> <li>• 1: Simple verification of root certificate</li> <li>• 2: Precise verification of root certificate</li> </ul>
<b>Note</b>	<ul style="list-style-type: none"> <li>• If set to "0", the verification of the root certificate is disabled.</li> <li>• 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.</li> <li>• 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.</li> <li>• If the unit has not obtained the current time, verification will not be performed irrelevant of this setting. In order to perform verification it is necessary to first set up the NTP server.</li> </ul>
<b>Default Value</b>	0

## CFG\_RESYNC\_DURATION

<b>Value Format</b>	INTEGER
<b>Description</b>	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.
<b>Value Range</b>	0–1439
<b>Default Value</b>	0

## CFG\_BOOTUP\_DURATION\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable "CFG_RESYNC_TIME" and "CFG_RESYNC_DURATION" at startup.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	Y

## 5.3.6 Firmware Update Settings

### FIRM\_UPGRADE\_ENABLE

<b>Value Format</b>	BOOLEAN
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### 5.3.6 Firmware Update Settings

<b>Description</b>	Specifies whether to perform firmware updates when the unit detects a newer version of firmware.
<b>Note</b>	<ul style="list-style-type: none"><li>Manual firmware updates from the Web user interface (→ see <b>4.7.3 Upgrade Firmware (For KX-HDV130/KX-HDV230)</b>) can be performed regardless of this setting. (For KX-HDV130/KX-HDV230)</li><li>Firmware updates using TR-069 can be performed regardless of this setting.</li></ul>
<b>Value Range</b>	<ul style="list-style-type: none"><li><b>Y</b>: Enable firmware updates</li><li><b>N</b>: Disable firmware updates</li></ul>
<b>Default Value</b>	<b>Y</b>
<b>Web User Interface Reference</b>	Enable Firmware Update

## FIRM\_FILE\_PATH

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URL where the firmware file is stored.
<b>Note</b>	<ul style="list-style-type: none"><li>This setting is available only when "<b>FIRM_UPGRADE_ENABLE</b>" is set to "<b>Y</b>".</li></ul>
<b>Value Range</b>	Max. 384 characters
<b>Note</b>	<ul style="list-style-type: none"><li>If "{fwver}" is included in this parameter, it will be replaced with the value specified in "<b>FIRM_VERSION</b>". For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li></ul>
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Firmware File URL

## FIRM\_VERSION

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the firmware version of the unit.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Firmware Version (For KX-HDV330/KX-HDV430)

## FWDL\_RANDOM\_DURATION

<b>Value Format</b>	INTEGER
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<b>Description</b>	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.
<b>Value Range</b>	0–1439
<b>Default Value</b>	0

## 5.3.7 HTTP Settings

### HTTP\_VER

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies which version of the HTTP protocol to use for HTTP communication.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 1: Use HTTP/1.0</li> <li>• 0: Use HTTP/1.1</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• 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".</li> </ul>
<b>Default Value</b>	1
<b>Web User Interface Reference</b>	HTTP Version

### HTTP\_USER\_AGENT

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

### HTTP\_AUTH\_ID

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the authentication ID required to access the HTTP server.

### 5.3.7 HTTP Settings

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<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Authentication ID

## HTTP\_AUTH\_PASS

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the authentication password required to access the HTTP server.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Authentication Password

## HTTP\_PROXY\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the HTTP proxy feature.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>y</b>: Enable HTTP proxy connect</li><li>• <b>n</b>: Disable</li></ul>
<b>Default Value</b>	<b>n</b>
<b>Web User Interface Reference</b>	Enable Proxy

## HTTP\_PROXY\_ADDR

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of the proxy server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Proxy Server Address

## HTTP\_PROXY\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port of the proxy server.
<b>Value Range</b>	1–65535
<b>Default Value</b>	8080
<b>Web User Interface Reference</b>	Proxy Server Port

## HTTP\_PROXY\_ID

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the user ID for connecting HTTP proxy.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Empty string

## [HTTP\\_PROXY\\_PASS](#)

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the password for connecting HTTP proxy.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Empty string

## [5.3.8 HTTPD/WEB Settings](#)

### [HTTPD\\_LISTEN\\_PORT](#)

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port number of own HTTP server.
<b>Value Range</b>	80, 1024–49151
<b>Default Value</b>	80

### [HTTPD\\_PORTOPEN\\_AUTO](#)

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the unit's Web port is always open.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Web port is always open</li> <li>• <b>N:</b> Web port is closed [can be opened temporarily through phone user interface programming]</li> </ul> <p><b>Notice</b></p> <ul style="list-style-type: none"> <li>• 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.</li> </ul>
<b>Default Value</b>	<b>N</b>

### [HTTPD\\_PORTCLOSE\\_TM](#)

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies port close time when keeping the no action.
<b>Value Range</b>	1–1440
<b>Default Value</b>	30

### [USER\\_ID](#)

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the account ID used to access the Web user interface with the User account.

### 5.3.8 HTTPD/WEB Settings

<b>Value Range</b>	Max. 16 characters (except !, ", #, \$, %, &, ', (, ), @, *, +, ,, /, :, ;, <, =, >, ?, [, ], ^, ` , {,  , }, ~, \ and space)
<b>Note</b>	<ul style="list-style-type: none"><li>• An empty string is not allowed.</li><li>• A hyphen (-) cannot be used as the first character.</li></ul>
<b>Default Value</b>	user

## USER\_PASS

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the password to use to authenticate the User account when logging in to the Web user interface.
<b>Value Range</b>	6–64 characters (except !, ", #, \$, %, &, ', (, ), @, *, +, ,, /, :, ;, <, =, >, ?, [, ], ^, ` , {,  , }, ~, \ and space)
<b>Note</b>	<ul style="list-style-type: none"><li>• A hyphen (-) cannot be used as the first character.</li></ul>
<b>Default Value</b>	Empty string (only before a user accesses the Web user interface for the first time)
<b>Web User Interface Reference</b>	New Password

## ADMIN\_ID

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the account ID used to access the Web user interface with the Admin account.
<b>Value Range</b>	Max. 16 characters (except !, ", #, \$, %, &, ', (, ), @, *, +, ,, /, :, ;, <, =, >, ?, [, ], ^, ` , {,  , }, ~, \ and space)
<b>Note</b>	<ul style="list-style-type: none"><li>• An empty string is not allowed.</li><li>• A hyphen (-) cannot be used as the first character.</li></ul>
<b>Default Value</b>	admin

## ADMIN\_PASS

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the password to use to authenticate the Administrator account when logging in to the Web user interface.

<b>Value Range</b>	6–64 characters (except !, ", #, \$, %, &, ', (, ), @, *, +, ,, /, :, ;, <, =, >, ?, [, ], ^, `,{,  , }, ~, \ and space)
<b>Note</b>	<ul style="list-style-type: none"> <li>A hyphen (-) cannot be used as the first character.</li> </ul>
<b>Default Value</b>	adminpass
<b>Web User Interface Reference</b>	New Password

## 5.3.9 TR-069 Settings

### ACS\_URL

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URL of the Auto-Configuration Server for using TR-069.
<b>Note</b>	<ul style="list-style-type: none"> <li>This parameter must be in the form of a valid HTTP or HTTPS URL, as defined in RFC 3986.</li> </ul>
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string

### ACS\_USER\_ID

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the user ID for the Auto-Configuration Server for using TR-069.
<b>Value Range</b>	Max. 256 characters (except ", &, ', :, <, >, and space)
<b>Default Value</b>	Empty string

### ACS\_PASS

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the user password for the Auto-Configuration Server for using TR-069.
<b>Value Range</b>	Max. 256 characters (except ", &, ', :, <, >, and space)
<b>Default Value</b>	Empty string

### PERIODIC\_INFORM\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	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.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable</li> <li><b>N:</b> Disable</li> </ul>

### 5.3.9 TR-069 Settings

Default Value	N
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## PERIODIC\_INFORM\_INTERVAL

Value Format	INTEGER
Description	<p>Specifies the interval length, in seconds, when the CPE must attempt to connect with the ACS and call the Inform method.</p> <p><b>Note</b></p> <ul style="list-style-type: none"><li>• This setting is available only when "PERIODIC_INFORM_ENABLE" is set to "Y".</li></ul>
Value Range	30–2419200
Default Value	86400

## PERIODIC\_INFORM\_TIME

Value Format	STRING
Description	<p>Specifies the time (UTC) to determine when the CPE will initiate the periodic Inform method calls.</p> <p><b>Note</b></p> <ul style="list-style-type: none"><li>• 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.</li><li>• 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".</li><li>• Time zones other than UTC are not supported.</li></ul>
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

<b>Default Value</b>	Empty string
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## CON\_REQ\_PASS

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the password used to authenticate an ACS making a Connection Request to the CPE.
<b>Note</b>	<ul style="list-style-type: none"> <li>When the "CON_REQ_USER_ID" parameter is specified, an empty string for this parameter is not allowed.</li> </ul>
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string

## ANNEX\_G\_STUN\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	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.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable</li> <li><b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>

## ANNEX\_G\_STUN\_SERV\_ADDR

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the host name or IP address of the STUN server for the CPE to send Binding Requests.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "ANNEX_G_STUN_ENABLE" is set to "Y".</li> <li>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.</li> </ul>
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string

## ANNEX\_G\_STUN\_SERV\_PORT

<b>Value Format</b>	INTEGER
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### 5.3.9 TR-069 Settings

<b>Description</b>	Specifies the port number of the STUN server for the CPE to send Binding Requests.
<b>Note</b>	<ul style="list-style-type: none"><li>This setting is available only when "ANNEX_G_STUN_ENABLE" is set to "Y".</li></ul>
<b>Value Range</b>	1–65535
<b>Default Value</b>	3478

### ANNEX\_G\_STUN\_USER\_ID

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the STUN user name to be used in Binding Requests (only if message integrity has been requested by the STUN server).
<b>Note</b>	<ul style="list-style-type: none"><li>If the value for this setting is an empty string, the CPE must not send STUN Binding Requests with message integrity.</li></ul>
<b>Value Range</b>	Max. 256 characters (except ", &, :, <, >, and space)
<b>Default Value</b>	Empty string

### ANNEX\_G\_STUN\_PASS

<b>Value Format</b>	STRING
<b>Description</b>	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.
<b>Value Range</b>	Max. 256 characters (except ", &, :, <, >, and space)
<b>Default Value</b>	Empty string

### ANNEX\_G\_STUN\_MAX\_KEEP\_ALIVE

<b>Value Format</b>	INTEGER
<b>Description</b>	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.
<b>Note</b>	<ul style="list-style-type: none"><li>This setting is available only when "ANNEX_G_STUN_ENABLE" is set to "Y".</li></ul>
<b>Value Range</b>	1–3600
<b>Default Value</b>	300

**ANNEX\_G\_STUN\_MIN\_KEEP\_ALIVE**

<b>Value Format</b>	INTEGER
<b>Description</b>	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.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "<b>ANNEX_G_STUN_ENABLE</b>" is set to "Y".</li> </ul>
<b>Value Range</b>	1–3600
<b>Default Value</b>	30

**UDP\_CON\_REQ\_ADDR\_NOTIFY\_LIMIT**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the minimum time, in seconds, between Active Notifications resulting from changes to the "UDPConnectionRequestAddress" (if Active Notification is enabled).
<b>Value Range</b>	0–65535
<b>Default Value</b>	0

**DEVICE\_PROVISIONING\_CODE**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the device provisioning code for use with TR-106 parameters.
<b>Value Range</b>	Max. 64 characters
<b>Default Value</b>	Empty string

**TR069\_REGISTERING**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the line status that TR-069 outputs while the line is being registered.
<b>Value Range</b>	Max.16 characters
<b>Default Value</b>	Error

**TR069\_REGISTERED**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the line status that TR-069 outputs when the line has been registered.
<b>Value Range</b>	Max.16 characters
<b>Default Value</b>	Registering

## 5.3.10 XML Settings

### XMLAPP\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the XML application feature.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable XML application</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable XMLAPP

### XMLAPP\_USERID

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the authentication ID required to access the XML application server.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	User ID

### XMLAPP\_USERPASS

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the authentication password used to access the XML application server.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Password

### XMLAPP\_LDAP\_URL

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URL that is accessed when the phonebook is accessed, to check for XML data.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	LDAP URL

### XMLAPP\_LDAP\_USERID

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the authentication ID required to access the LDAP server.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Empty string

<b>Web User Interface Reference</b>	User ID
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### XMLAPP\_LDAP\_USERPASS

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

### XMLAPP\_NPB\_SEARCH\_TIMER

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the time which is for searching XML phonebook.
<b>Value Range</b>	1–65535
<b>Default Value</b>	30

### XMLAPP\_LDAP\_MAXRECORD

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the maximum number of search results to be returned by the LDAP server.
<b>Value Range</b>	20–500
<b>Default Value</b>	20
<b>Web User Interface Reference</b>	Max Hits

### XML\_HTTPD\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the local HTTP port for XML application.
<b>Value Range</b>	1–65535
<b>Default Value</b>	6666
<b>Web User Interface Reference</b>	Local XML Port

### XML\_ERROR\_INFORMATION

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to display an error information when an error occurs.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Error information is displayed</li> <li>• <b>N</b>: Error information is not displayed</li> </ul>
<b>Default Value</b>	<b>Y</b>

### 5.3.10 XML Settings

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#### **XMLAPP\_START\_URL**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URL that is accessed when the unit starts up, to check for XML data.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Bootup URL

#### **XMLAPP\_INITIAL\_URL**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URL that is accessed when the application is started from the unit's menu, to check for XML data.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Initial URL

#### **XMLAPP\_INCOMING\_URL**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URL that is accessed when the unit receives a call, to check for XML data.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Incoming Call URL

#### **XMLAPP\_TALKING\_URL**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URL that is accessed when the unit is on a call, to check for XML data.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Talking URL

#### **XMLAPP\_MAKECALL\_URL**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URL that is accessed when the unit makes a call, to check for XML data.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Making Call URL

**XMLAPP\_CALLLOG\_URL**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URL that is accessed when the call log is accessed, to check for XML data.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Call Log URL

**XMLAPP\_IDLING\_URL**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URL that is accessed when the unit is idle, to check for XML data.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Idling URL

**XML\_INITIATE\_KEY\_SOFT1 (For KX-HDV130/KX-HDV230)**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed during standby mode.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable XML application</li> <li>• <b>N:</b> Normal operation</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Soft Key A (Left)

**XML\_INITIATE\_KEY\_SOFT2 (For KX-HDV130/KX-HDV230)**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed during standby mode.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable XML application</li> <li>• <b>N:</b> Normal operation</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Soft Key B (Center)

**XML\_INITIATE\_KEY\_SOFT3 (For KX-HDV130/KX-HDV230)**

<b>Value Format</b>	BOOLEAN
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### 5.3.10 XML Settings

<b>Description</b>	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed during standby mode.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>x</b>: Enable XML application</li><li>• <b>n</b>: Normal operation</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Soft Key C (Right)

### XMLAPP\_FFKEY\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the XML application or operate the telephone normally, when the corresponding button is pressed.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>x</b>: XML Mode</li><li>• <b>n</b>: Normal Telephone Mode</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable FF Key

### XML\_SOFT\_KEY\_NAMEx (For KX-HDV130/KX-HDV230)

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

### XMLAPP\_URL\_SOFT\_KEYx (For KX-HDV130/KX-HDV230)

<b>Value Format</b>	STRING
<b>Description</b>	<b>x=1-3</b> Specifies the URL that is accessed when the soft key A/B/C is pressed.
<b>Value Range</b>	Max. 256 characters ("&" may also be used)
<b>Default Value</b>	Empty string

### XMLAPP\_URL\_FLEX\_BUTTONx

<b>Value Format</b>	STRING
<b>Description</b>	<b>x=1-2 — KX-HDV130</b> <b>x=1-24 — KX-HDV230/KX-HDV330/KX-HDV430</b> Specifies the URL that is accessed when the FFx key is pressed.
<b>Value Range</b>	Max. 256 characters ("&" may also be used)
<b>Default Value</b>	Empty string

**XMLAPP\_STATUSBAR\_ENABLE (For KX-HDV330/KX-HDV430)**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the Status Bar XML application feature.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Enable the Status Bar XML application feature</li> <li>• <b>N</b>: Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

**SYS\_HOME\_MENU\_XML\_NAMEx (For KX-HDV330/KX-HDV430)**

<b>Value Format</b>	STRING
<b>Description</b>	x=1–6 Specifies the name of an icon for an XML feature on the Home menu.
<b>Value Range</b>	Max. 24 characters
<b>Default Value</b>	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-HDV430)**

<b>Value Format</b>	STRING
<b>Description</b>	x=1–6 Specifies the URL that is accessed by an XML feature on the Home menu.
<b>Value Range</b>	Max. 256 characters ("&" may also be used.)
<b>Default Value</b>	Empty string

**SYS\_HOME\_MENU\_XML\_ICONx (For KX-HDV330/KX-HDV430)**

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

**Icon Type**

### 5.3.10 XML Settings



#### Note

- No.12, 16, 20–29: Blank

## XML\_PHONEBOOK\_URL

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URL to download the XML phonebook file from.
<b>Value Range</b>	Max.256 characters
<b>Default Value</b>	Empty string

## XML\_PHONEBOOK\_CYCLIC\_INTVL

<b>Value Format</b>	INTEGER
<b>Description</b>	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.
<b>Value Range</b>	0, 1–40320
<b>Default Value</b>	0

## XML\_CURSOR\_SKIP\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Selects whether to skip displaying the cursor on line 1 (id=1) of the display on the XML menu.
<b>Value Range</b>	<ul style="list-style-type: none"><li><b>y</b>: Enable skipping the cursor display on line 1 (id=1)</li><li><b>n</b>: Disable</li></ul>
<b>Default Value</b>	N

## XMLAPP\_URL\_REDIAL\_KEY

<b>Value Format</b>	STRING
<b>Description</b>	When the redial key is defined by an XML element, specifies the URL that is accessed when the [●/○/REDIAL] key is pressed.
<b>Value Range</b>	Max. 256 characters (The ampersand [&] character is available)
<b>Default Value</b>	Empty string

## XMLAPP\_RCV\_IP\_ADDRESSx

<b>Value Format</b>	IPADDR
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<b>Description</b>	X=1-20 Specifies the IP addresses from which XML (POST) may be received.
<b>Note</b>	<ul style="list-style-type: none"> <li>If no IP addresses are specified, XML (POST) can be received from any IP address</li> </ul>
<b>Value Range</b>	Max. 15 characters n.n.n.n [n=0-255]
<b>Default Value</b>	Empty string

## 5.3.11 XSI Settings

### XSI\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the Xsi service.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>y:</b> Enable Xsi service</li> <li><b>n:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable Xtended Service

### XSI\_SERVER

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of the Xsi server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Server Address

### XSI\_SERVER\_TYPE

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the type of the Xsi server.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>HTTP</li> <li>HTTPS</li> </ul>
<b>Default Value</b>	HTTP
<b>Web User Interface Reference</b>	Protocol

### XSI\_SERVER\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port of the Xsi server.
<b>Value Range</b>	1-65535
<b>Default Value</b>	80

### 5.3.11 XSI Settings

Web User Interface Reference	Port
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#### XSI\_USERID\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the authentication ID required to access the Xsi server.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	User ID

#### XSI\_PASSWORD\_n

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

#### XSI\_PHONEBOOK\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the Xsi phonebook service.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable Xsi phonebook</li><li>• <b>N</b>: Disable</li></ul>
<b>Default Value</b>	N
<b>Web User Interface Reference</b>	Enable Phonebook

#### XSI\_PHONEBOOK\_CYCLIC\_INVL

<b>Value Format</b>	INTEGER
<b>Description</b>	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.
<b>Value Range</b>	0–40320
<b>Default Value</b>	0

#### XSI\_PHONEBOOK\_RESYNC\_DURATION

<b>Value Format</b>	INTEGER
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<b>Description</b>	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.
<b>Value Range</b>	0–1439
<b>Default Value</b>	0

### XSI\_PHONEBOOK\_TYPE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the type of Xsi phonebook.
<b>Value Range</b>	1: Group 2: GroupCommon 3: Enterprise 4: EnterpriseCommon 5: Personal
<b>Default Value</b>	1
<b>Web User Interface Reference</b>	Phonebook Type

### XSI\_CALLLOG\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the Xsi call log service.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable Xsi call log</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable Call Log

### XSI\_VISUAL\_VM\_ENABLE\_n (For KX-HDV330/KX-HDV430)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the Visual Voice Mail feature of the selected line.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable Visual Voice Mail</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable Visual Voice Mail (For KX-HDV330/KX-HDV430)

### XSI\_SIP\_CREDENTIALS\_ENABLE

<b>Value Format</b>	BOOLEAN
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### 5.3.11 XSI Settings

<b>Description</b>	Specifies whether to enable or disable the XSI SIP Credentials feature.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable XSI SIP Credentials</li><li>• <b>N</b>: Disable</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	SIP Credentials

## BSD\_MULTI\_TYPE\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether you can select the type of Xsi phonebook.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable</li><li>• <b>N</b>: Disable</li></ul>
<b>Default Value</b>	<b>N</b>

## BSD\_GROUP\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the "Group" type for Xsi phonebooks.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b> : Enable</li><li>• <b>N</b> : Disable</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Group

## BSD\_GROUPCOM\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the "GroupCommon" type for Xsi phonebooks.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b> : Enable</li><li>• <b>N</b> : Disable</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	GroupCommon

## BSD\_ENTERPRISE\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the "Enterprise" type for Xsi phonebooks.

<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>y</b> : Enable</li> <li><b>n</b> : Disable</li> </ul>
<b>Default Value</b>	N
<b>Web User Interface Reference</b>	Enterprise

### BSD\_ENTERPRISECOM\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the "EnterpriseCommon" type for Xsi phonebooks.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>y</b> : Enable</li> <li><b>n</b> : Disable</li> </ul>
<b>Default Value</b>	N
<b>Web User Interface Reference</b>	EnterpriseCommon

### BSD\_PERSONAL\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the "Personal" type for Xsi phonebooks.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>y</b> : Enable</li> <li><b>n</b> : Disable</li> </ul>
<b>Default Value</b>	N
<b>Web User Interface Reference</b>	Personal

## 5.3.12 XMPP (UC-ONE) Settings

### UC\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the UC service.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>y</b>: Enable UC service</li> <li><b>n</b>: Disable</li> </ul>
<b>Default Value</b>	N
<b>Web User Interface Reference</b>	Enable UC

### UC\_USERID

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the authentication ID required to access the UC server.
<b>Value Range</b>	Max. 128 characters

### 5.3.12 XMPP (UC-ONE) Settings

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<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	User ID

## UC\_PASSWORD

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

## XMPP\_SERVER

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of the XMPP server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Server Address

## XMPP\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the local XMPP port.
<b>Value Range</b>	1–65535
<b>Default Value</b>	5222
<b>Web User Interface Reference</b>	Local XMPP Port

## XMPP\_TLS\_VERIFY

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to enable the verification of the root certificate.
<b>Value Range</b>	0: No verification 1: Simple verification 2: Precise verification
<b>Default Value</b>	0

## XMPP\_ROOT\_CERT\_PATH

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URI where the root certificate is stored.
<b>Value Range</b>	Max. 384 characters
<b>Note</b>	<ul style="list-style-type: none"><li>For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li></ul>

<b>Default Value</b>	Empty string
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### XMPP\_CLIENT\_CERT\_PATH

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URI where the client certificate is stored.
<b>Value Range</b>	Max. 384 characters
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>For details about the formats, see <a href="#">2.1.3 Server Address Formats</a>.</li> </ul>
<b>Default Value</b>	Empty string

### XMPP\_PKEY\_PATH

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URI where the private key is stored.
<b>Value Range</b>	Max. 384 characters
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>For details about the formats, see <a href="#">2.1.3 Server Address Formats</a>.</li> </ul>
<b>Default Value</b>	Empty string

### UC\_DNSSRV\_ENA

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to request the DNS server to translate domain names into IP addresses using the SRV record.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>y:</b> Enable DNS SRV lookup</li> <li><b>n:</b> Disable</li> </ul>
<b>Default Value</b>	<b>n</b>

### UC\_TCP\_SRV\_PREFIX

<b>Value Format</b>	STRING
<b>Description</b>	Specifies a prefix to add to the domain name when performing a DNS SRV lookup using TCP.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	_xmpp-client._tcp.

### UC\_USERID\_CASE\_SENSITIVE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the authentication ID is case-sensitive when accessing the UC server.

### 5.3.13 LDAP Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b> : Enable</li><li>• <b>N</b> : Disable</li></ul>
<b>Default Value</b>	<b>N</b>

## **PRESENCE\_MYPHONE\_STATUS**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the default status of "My Phone" when "Presence" starts up.
<b>Value Range</b>	0-4 <ul style="list-style-type: none"><li>– 0: Available</li><li>– 1: Away</li><li>– 2: Busy</li><li>– 3: Offline</li><li>– 4: Invisible</li></ul>
<b>Default Value</b>	0

## **PRESENCE\_INVISIBLE\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies which operation to use when the status of "My Phone" is set to "Invisible" using the phone.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Invisible</li><li>• <b>N</b>: Offline</li></ul>
<b>Default Value</b>	<b>N</b>

## **5.3.13 LDAP Settings**

### **LDAP\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the LDAP service.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable LDAP service</li><li>• <b>N</b>: Disable</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable LDAP

### **LDAP\_DNSSRV\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to request the DNS server to translate domain names into IP addresses using the SRV record.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable DNS SRV lookup</li><li>• <b>N</b>: Disable</li></ul>

<b>Default Value</b>	N
<b>Web User Interface Reference</b>	Enable DNS SRV lookup

## LDAP\_SERVER

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the server host of LDAP.
<b>Value Range</b>	Max. 256 characters
<b>Note</b>	<ul style="list-style-type: none"> <li>The LDAP server address should start with "ldap://" or "ldaps://".</li> </ul>
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Server Address

## LDAP\_SERVER\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port of the LDAP server.
<b>Value Range</b>	1–65535
<b>Default Value</b>	389
<b>Web User Interface Reference</b>	Port

## LDAP\_MAXRECORD

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the maximum number of search results to be returned by the LDAP server.
<b>Value Range</b>	20–500
<b>Default Value</b>	20
<b>Web User Interface Reference</b>	Max Hits

## LDAP\_NUMB\_SEARCH\_TIMER

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the timer for searching telephone number.
<b>Value Range</b>	1–65535
<b>Default Value</b>	30

## LDAP\_NAME\_SEARCH\_TIMER

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the timer for searching name.
<b>Value Range</b>	1–65535
<b>Default Value</b>	5

### 5.3.13 LDAP Settings

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#### LDAP\_USERID

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the authentication ID required to access the LDAP server.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	User ID

#### LDAP\_PASSWORD

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

#### LDAP\_NAME\_FILTER

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

#### LDAP\_NUMB\_FILTER

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the number filter which is the search criteria for number look up.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	( (telephoneNumber=%)(mobile=%)(homePhone=%))
<b>Web User Interface Reference</b>	Number Filter

#### LDAP\_NAME\_ATTRIBUTE

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the name attributes of each record which are to be returned in the LDAP search result.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	cn,sn
<b>Web User Interface Reference</b>	Name Attributes

## LDAP\_NUMB\_ATTRIBUTE

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

## LDAP\_BASEDN

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the entry information on the screen.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Distinguished Name(Base DN)

## LDAP\_SSL\_VERIFY

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to enable the verification of the root certificate.
<b>Value Range</b>	0: No verification 1: Simple verification 2: Precise verification
<b>Default Value</b>	0

## LDAP\_ROOT\_CERT\_PATH

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URI where the root certificate is stored.
<b>Value Range</b>	Max. 384 characters
	<b>Note</b> <ul style="list-style-type: none"> <li>For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li> </ul>

**Default Value** Empty string

## LDAP\_CLIENT\_CERT\_PATH

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URI where the client certificate is stored.
<b>Value Range</b>	Max. 384 characters
	<b>Note</b> <ul style="list-style-type: none"> <li>For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li> </ul>

### 5.3.14 Call Center Settings

Default Value	Empty string
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#### LDAP\_PKEY\_PATH

Value Format	STRING
Description	Specifies the URI where the private key is stored.
Value Range	Max. 384 characters <b>Note</b> <ul style="list-style-type: none"><li>For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li></ul>
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 <b>5.2.1 Configuration File Parameters</b>	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to add menu items for Call Center.
<b>Value Range</b>	<ul style="list-style-type: none"><li><b>y:</b> Enable</li><li><b>n:</b> Disable</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable Call Center

#### ACD\_ENABLE\_n

For details about parameter names end with "_n", see <b>5.2.1 Configuration File Parameters</b>	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the ACD.
<b>Value Range</b>	<ul style="list-style-type: none"><li><b>y:</b> Enable</li><li><b>n:</b> Disable</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable ACD

## [ACD\\_LOGIN\\_CONDITION\\_n](#)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the ACD state when login to the ACD.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Available</li> <li>• 1: Unavailable</li> </ul>
<b>Default Value</b>	0

## [ACD\\_LOGOUT\\_CONDITION\\_n](#)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the ACD state when logout to the ACD.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Continue</li> <li>• 1: Unavailable</li> </ul>
<b>Default Value</b>	1

## [CC\\_DISPOSITION\\_CODE\\_ENABLE\\_n](#)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the Disposition Code.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Enable</li> <li>• <b>N</b>: Disable</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Disposition Code

## [CC\\_CUSTOMER\\_ORG\\_TRACE\\_ENABLE\\_n](#)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the Customer Originated Trace.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Enable</li> <li>• <b>N</b>: Disable</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Customer Originated Trace

## [CC\\_HOTELING\\_EVENT\\_n](#)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the Hoteling Event.

### 5.3.14 Call Center Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li><b>y</b>: Enable</li><li><b>n</b>: Disable</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Hoteling Event

## HOTELING\_USERID\_n

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

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the authentication ID required to access the Hoteling service.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	- User ID

## HOTELING\_PASSWORD\_n

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

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the authentication password required to access the Hoteling service.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	- Password

## CC\_STATUS\_EVENT\_ENABLE\_n

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

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the Status Event.
<b>Value Range</b>	<ul style="list-style-type: none"><li><b>y</b>: Enable</li><li><b>n</b>: Disable</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Status Event

## UC\_HOTELING\_MODE

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

<b>Default Value</b>	0
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### UC\_FLEXIBLESEATING\_UNLOCKPIN

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

## 5.3.15 SNMP Settings

### Note

- Changing SNMP setting may require restarting the unit.

### SNMP\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable SNMP feature.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>y:</b> Enable SNMP</li> <li>• <b>n:</b> Disable</li> </ul>
<b>Default Value</b>	N

### SNMP\_TRUST\_IP

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of the trusted SNMP server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string

### SNMP\_TRUST\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port of the trusted SNMP server.
<b>Value Range</b>	1–65535
<b>Default Value</b>	161

### SNMP\_RO\_COMMUNITY\_STRING

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the community name for read-only.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string

### SNMP\_SECURITY\_TYPE

<b>Value Format</b>	INTEGER
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### 5.3.15 SNMP Settings

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<b>Description</b>	Specifies the security type of SNMPv3.
<b>Value Range</b>	0: noAuthNoPriv 1: AuthNoPriv 2: AuthPriv
<b>Default Value</b>	0

## SNMP\_SECURITY\_USER

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the security user ID for authentication and encryption of SNMPv3.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string

## SNMP\_AUTH\_TYPE

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the authentication type of SNMPv3.
<b>Value Range</b>	0: MD5 1: SHA
<b>Default Value</b>	0

## SNMP\_AUTH\_PASSWORD

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the authentication password of SNMPv3.
<b>Value Range</b>	0, 8–64 characters
<b>Default Value</b>	Empty string

## SNMP\_ENCRYPT\_TYPE

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the encryption type of SNMPv3.
<b>Value Range</b>	0: DES 1: AES
<b>Default Value</b>	1

## SNMP\_ENCRYPT\_PASSWORD

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the encryption password of SNMPv3.
<b>Value Range</b>	0, 8–64 characters
<b>Default Value</b>	Empty string

## 5.3.16 Multicast Paging Settings

### MPAGE\_ADDRm

<b>Parameter Name Example</b>	<b>MPAGE_ADDR1, MPAGE_ADDR2, ..., MPAGE_ADDR5</b>
<b>Value Format</b>	IPADDR
<b>Description</b>	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)}
<b>Value Range</b>	224.0.0.0–239.255.255.255
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	IPv4 Address (Group 1–5)

### MPAGE\_IPV6\_ADDRm

<b>Parameter Name Example</b>	<b>MPAGE_IPV6_ADDR1, MPAGE_IPV6_ADDR2, ..., MPAGE_IPV6_ADDR5</b>
<b>Value Format</b>	IPADDR-V6
<b>Description</b>	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)}
<b>Value Range</b>	FF00::/8
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	IPv6 Address (Group 1–5)

### MPAGE\_PORTm

<b>Parameter Name Example</b>	<b>MPAGE_PORT1, MPAGE_PORT2, ..., MPAGE_PORT5</b>
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port number for multi-cast paging for each channel group.(m=1–5, the channel group)
<b>Value Range</b>	0–65535 (0: not used)
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Port (Group 1–5)

### MPAGE\_PRIORITYm

<b>Parameter Name Example</b>	<b>MPAGE_PRIORITY1, MPAGE_PRIORITY2, MPAGE_PRIORITY3</b>
<b>Value Format</b>	INTEGER
<b>Description</b>	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.
<b>Value Range</b>	4,5 (Talk > 4 > 5)

### 5.3.16 Multicast Paging Settings

<b>Default Value</b>	5
<b>Web User Interface Reference</b>	Priority (Group 1–3)

#### MPAGE\_LABELm

<b>Parameter Name Example</b>	MPAGE_LABEL1, MPAGE_LABEL2, ..., MPAGE_LABEL5
<b>Value Format</b>	STRING
<b>Description</b>	Specifies a label for each channel group. (m=1–5, the channel group)
<b>Value Range</b>	Max. 24 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Label (Group 1–5)

#### MPAGE\_SEND\_ENABLEm

<b>Parameter Name Example</b>	MPAGE_SEND_ENABLE1, MPAGE_SEND_ENABLE2, ..., MPAGE_SEND_ENABLE5
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies the sending multi-cast paging. (m=1–5, the channel group)
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> Enable</li><li>• <b>N:</b> Disable</li></ul>
<b>Default Value</b>	N
<b>Web User Interface Reference</b>	Enable Transmission (Group 1–5)

#### MPAGE\_CODEC

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the codec for multi-cast paging.
<b>Value Range</b>	0 : "G722" 1 : "PCMA" 2 : – 3 : "G729A" 4 : "PCMU"
<b>Default Value</b>	0

#### MPAGE\_SP\_VOL\_EMERGENCY

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the speaker level for new received multi-cast paging (emergency channel).
<b>Value Range</b>	0–8 0: No control
<b>Default Value</b>	0

#### MPAGE\_SP\_VOL\_PRIORITY

<b>Value Format</b>	INTEGER
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<b>Description</b>	Specifies the speaker level for new received multi-cast paging (priority channel).
<b>Value Range</b>	0–8 0: No control
<b>Default Value</b>	0

### MPAGE\_DND\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies the DND setting (on/off) for multi-cast paging.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable DND for Multi-cast paging</li> <li>• <b>N:</b> Disable DND for Multi-cast paging</li> </ul>
<b>Default Value</b>	<b>N</b>

### MPAGE\_FUNCKEY\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the multicast paging key in function menu.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>

## 5.3.17 NTP Settings

### NTP\_ADDR

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of NTP server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Server Address

### TIME\_SYNC\_INTVL

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the interval, in seconds, to resynchronize after having detected no reply from the NTP server.
<b>Value Range</b>	10–86400
<b>Default Value</b>	60

### TIME\_QUERY\_INTVL

<b>Value Format</b>	INTEGER
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### 5.3.18 Time Settings

<b>Description</b>	Specifies the interval, in seconds, between synchronizations with the NTP server.
<b>Value Range</b>	10–86400
<b>Default Value</b>	43200
<b>Web User Interface Reference</b>	Synchronization Interval (Synchronisation Interval)

## 5.3.18 Time Settings

### LOCAL\_TIME\_ZONE\_POSIX

<b>Value Format</b>	STRING
<b>Description</b>	Specifies a IEEE 1003.1 (POSIX)-compliant local time zone definition (e.g., "EST+5 EDT,M4.1.0/2,M10.5.0/2").
<b>Note</b>	<ul style="list-style-type: none"><li>If this parameter is specified, the following parameters are disabled, and operation will be based on this parameter.<ul style="list-style-type: none"><li>– TIME_ZONE</li><li>– DST_ENABLE</li><li>– DST_OFFSET</li><li>– DST_START_MONTH</li><li>– DST_START_ORDINAL_DAY</li><li>– DST_START_DAY_OF_WEEK</li><li>– DST_START_TIME</li><li>– DST_STOP_MONTH</li><li>– DST_STOP_ORDINAL_DAY</li><li>– DST_STOP_DAY_OF_WEEK</li><li>– DST_STOP_TIME</li></ul></li></ul>
<b>Value Range</b>	Max. 70 characters
<b>Default Value</b>	Empty string

### TIME\_ZONE

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the offset of local standard time from UTC (GMT), in minutes.

<b>Value Range</b>	-720–780
<b>Note</b>	<ul style="list-style-type: none"> <li>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)</li> <li>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).</li> <li>This parameter is disabled when the "<u>LOCAL_TIME_ZONE_POSIX</u>" parameter is specified.</li> </ul>
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Time Zone

## DST\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable DST (Summer Time).
<b>Note</b>	<ul style="list-style-type: none"> <li>This parameter is disabled when the "<u>LOCAL_TIME_ZONE_POSIX</u>" parameter is specified.</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y</b> (Enable DST [Summer Time])</li> <li><b>N</b> (Disable DST [Summer Time])</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable DST (Enable Summer Time)

## DST\_OFFSET

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the amount of time, in minutes, to change the time when " <u>DST_ENABLE</u> " is set to "Y".
<b>Note</b>	<ul style="list-style-type: none"> <li>This parameter is disabled when the "<u>LOCAL_TIME_ZONE_POSIX</u>" parameter is specified.</li> </ul>

### 5.3.18 Time Settings

<b>Value Range</b>	0–720
<b>Note</b>	<ul style="list-style-type: none"><li>This parameter is usually set to "60".</li></ul>
<b>Default Value</b>	60
<b>Web User Interface Reference</b>	DST Offset (Summer Time Offset)

## DST\_START\_MONTH

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the month in which DST (Summer Time) starts.
<b>Note</b>	<ul style="list-style-type: none"><li>This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified.</li></ul>
<b>Value Range</b>	1–12
<b>Default Value</b>	3
<b>Web User Interface Reference</b>	Month

## DST\_START\_ORDINAL\_DAY

<b>Value Format</b>	INTEGER
<b>Description</b>	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.
<b>Note</b>	<ul style="list-style-type: none"><li>This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified.</li></ul>
<b>Value Range</b>	1–5 <ul style="list-style-type: none"><li>1: the first week of the month</li><li>2: the second week of the month</li><li>3: the third week of the month</li><li>4: the fourth week of the month</li><li>5: the last week of the month</li></ul>
<b>Default Value</b>	2
<b>Web User Interface Reference</b>	Day of Week

## DST\_START\_DAY\_OF\_WEEK

<b>Value Format</b>	INTEGER
---------------------	---------

<b>Description</b>	Specifies the day of the week on which DST (Summer Time) starts.
<b>Note</b>	<ul style="list-style-type: none"> <li>This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified.</li> </ul>
<b>Value Range</b>	0–6 <ul style="list-style-type: none"> <li>0: Sunday</li> <li>1: Monday</li> <li>2: Tuesday</li> <li>3: Wednesday</li> <li>4: Thursday</li> <li>5: Friday</li> <li>6: Saturday</li> </ul>
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Day of Week

## DST\_START\_TIME

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the start time of DST (Summer Time) in minutes after 12:00 AM.
<b>Note</b>	<ul style="list-style-type: none"> <li>This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified.</li> </ul>
<b>Value Range</b>	0–1439
<b>Default Value</b>	120
<b>Web User Interface Reference</b>	Time

## DST\_STOP\_MONTH

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the month in which DST (Summer Time) ends.
<b>Note</b>	<ul style="list-style-type: none"> <li>This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified.</li> </ul>
<b>Value Range</b>	1–12
<b>Default Value</b>	11
<b>Web User Interface Reference</b>	Month

## DST\_STOP\_ORDINAL\_DAY

<b>Value Format</b>	INTEGER
---------------------	---------

### 5.3.18 Time Settings

<b>Description</b>	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.
<b>Note</b>	<ul style="list-style-type: none"><li>• This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified.</li></ul>
<b>Value Range</b>	1–5 <ul style="list-style-type: none"><li>– 1: the first week of the month</li><li>– 2: the second week of the month</li><li>– 3: the third week of the month</li><li>– 4: the fourth week of the month</li><li>– 5: the last week of the month</li></ul>
<b>Default Value</b>	1
<b>Web User Interface Reference</b>	Day of Week

## DST\_STOP\_DAY\_OF\_WEEK

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the day of the week on which DST (Summer Time) ends.
<b>Note</b>	<ul style="list-style-type: none"><li>• This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified.</li></ul>
<b>Value Range</b>	0–6 <ul style="list-style-type: none"><li>– 0: Sunday</li><li>– 1: Monday</li><li>– 2: Tuesday</li><li>– 3: Wednesday</li><li>– 4: Thursday</li><li>– 5: Friday</li><li>– 6: Saturday</li></ul>
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Day of Week

## DST\_STOP\_TIME

<b>Value Format</b>	INTEGER
---------------------	---------

<b>Description</b>	Specifies the end time of DST (Summer Time) in minutes after 12:00 AM.
<b>Note</b>	<ul style="list-style-type: none"> <li>This parameter is disabled when the "LOCAL_TIME_ZONE_POSIX" parameter is specified.</li> </ul>
<b>Value Range</b>	0–1439
<b>Default Value</b>	120
<b>Web User Interface Reference</b>	Time

## 5.3.19 Network Phonebook (Common)

### ONLY\_NPB\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to be available the unit phonebook when the network phonebook is enabled.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Not use unit phonebook</li> <li><b>N:</b> Use unit phonebook</li> </ul>
<b>Default Value</b>	<b>N</b>

### NETWORK\_SEARCH\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to perform the phonebook search at the time of the receiving the incoming or the searching the received log.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable phonebook search</li> <li><b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>

### NW\_PHONEBOOK\_ADVANCED\_SERACH

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to perform a narrowing search with the LDAP phonebook.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable</li> <li><b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>

## 5.3.20 Language Settings

### AVAILABLE\_LANGUAGE

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the selectable language on the unit.

### 5.3.20 Language Settings

<b>Value Range</b>	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 <a href="#">4.4.1.1 Selectable Language</a>
<b>Web User Interface Reference</b>	IP Phone

## DEFAULT\_LANGUAGE

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the default language on the unit.
<b>Value Range</b>	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 <a href="#">4.4.1.1 Selectable Language</a>
<b>Default Value</b>	en
<b>Web User Interface Reference</b>	IP Phone

## LANGUAGE\_PATHx

<b>Parameter Name Example</b>	<code>LANGUAGE_PATH1, LANGUAGE_PATH2, ..., LANGUAGE_PATH10</code>
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URI of the language file. x=1–10
<b>Value Range</b>	Max. 384 characters
	<b>Note</b> <ul style="list-style-type: none"><li>• For details about the formats, see <a href="#">2.1.3 Server Address Formats</a>.</li></ul>
<b>Default Value</b>	Empty string

## LANGUAGE\_VERx

<b>Parameter Name Example</b>	<code>LANGUAGE_VER1, LANGUAGE_VER2, ..., LANGUAGE_VER10</code>
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the version of the language file. x=1–10
<b>Value Range</b>	"00.000.000"–"15.999.999"
<b>Default Value</b>	Empty string

## AVAILABLE\_LANGUAGE\_WEB

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the selectable language on the Web.
<b>Value Range</b>	en, es, fr, de, it, nl, el, hu, pt, pl, sk, cs, sh, ru, uk, tr, ro, ct, kk, me → see <a href="#">4.4.1.1 Selectable Language</a>
<b>Web User Interface Reference</b>	Web Language

## WEB\_LANGUAGE

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

## WEB\_LANGUAGE\_PATHx

<b>Parameter Name Example</b>	<code>WEB_LANGUAGE_PATH1, WEB_LANGUAGE_PATH2, ..., WEB_LANGUAGE_PATH10</code>
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URI of the language file. $x=1-10$
<b>Value Range</b>	Max. 384 characters
<b>Note</b>	<ul style="list-style-type: none"> <li>For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li> </ul>
<b>Default Value</b>	Empty string

## WEB\_LANGUAGE\_VERx

<b>Parameter Name Example</b>	<code>WEB_LANGUAGE_VER1, WEB_LANGUAGE_VER2, ..., WEB_LANGUAGE_VER10</code>
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the version of the language file. $x=1-10$
<b>Value Range</b>	"00.000.000"- "15.999.999"
<b>Default Value</b>	Empty string

## 5.3.21 NAT Settings

### STUN\_SERV\_ADDR

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of the primary STUN server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Server Address

### STUN\_SERV\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port of the primary STUN server.
<b>Value Range</b>	1-65535

### 5.3.21 NAT Settings

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<b>Default Value</b>	3478
<b>Web User Interface Reference</b>	Port

## STUN\_2NDSERV\_ADDR

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of the secondary STUN server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string

## STUN\_2NDSERV\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port number of the secondary STUN server.
<b>Value Range</b>	1–65535
<b>Default Value</b>	3478

## STUN\_INTVL

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the interval of the sending binding request.
<b>Value Range</b>	60–86400
<b>Default Value</b>	300
<b>Web User Interface Reference</b>	Binding Interval

## SIP\_ADD\_RPORT

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to add the 'rport' parameter to the top Via header field value of requests generated.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> Enable Rport</li><li>• <b>N:</b> Disable</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable Rport (RFC 3581)

## PORT\_PUNCH\_INTVL

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the interval, in seconds, between transmissions of the Keep Alive packet in order to maintain the NAT binding information for SIP packet.
<b>Value Range</b>	0, 10–300 0: Disable
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Enable Port Punching for SIP

**RTP\_PORT\_PUNCH\_INVL**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the interval, in seconds, between transmissions of the Keep Alive packet in order to maintain the NAT binding information for RTP packet.
<b>Value Range</b>	0, 10–300 0: Disable
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Enable Port Punching for RTP

**EXTERNAL\_RTP\_PORTx**

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

**5.3.22 SIP Settings****SIP\_USER\_AGENT**

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

### 5.3.22 SIP Settings

#### PHONE\_NUMBER\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the phone number to use as the user ID required for registration to the SIP registrar server.
	<b>Note</b> <ul style="list-style-type: none"><li>• When registering using a user ID that is not a phone number, you should use the "SIP_URI_n" setting.</li></ul>
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Phone Number

#### SIP\_URI\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	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".
	<b>Note</b> <ul style="list-style-type: none"><li>• When registering using a user ID that is not a phone number, you should use this setting.</li><li>• 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.</li></ul>
<b>Value Range</b>	Max. 384 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	SIP URI

#### SIP\_RGSTR\_ADDR\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of the SIP registrar server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Registrar Server Address

#### SIP\_RGSTR\_PORT\_n

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

<b>Description</b>	Specifies the port number to use for communication with the SIP registrar server.
<b>Value Range</b>	1–65535
<b>Default Value</b>	5060
<b>Web User Interface Reference</b>	Registrar Server Port

### SIP\_PRXY\_ADDR\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of the SIP proxy server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Proxy Server Address

### SIP\_PRXY\_PORT\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port number to use for communication with the SIP proxy server.
<b>Value Range</b>	1–65535
<b>Default Value</b>	5060
<b>Web User Interface Reference</b>	Proxy Server Port

### SIP\_PRSNC\_ADDR\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of the SIP presence server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Presence Server Address

### SIP\_PRSNC\_PORT\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port number to use for communication with the SIP presence server.
<b>Value Range</b>	1–65535
<b>Default Value</b>	5060
<b>Web User Interface Reference</b>	Presence Server Port

### 5.3.22 SIP Settings

#### SIP\_OUTPROXY\_ADDR\_n

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

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of the SIP outbound proxy server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Outbound Proxy Server Address

#### SIP\_OUTPROXY\_PORT\_n

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

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port number to use for communication with the SIP outbound proxy server.
<b>Value Range</b>	1–65535
<b>Default Value</b>	5060
<b>Web User Interface Reference</b>	Outbound Proxy Server Port

#### SIP\_DNSSRV\_ENA\_NAPTR\_n

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

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the use of the NAPTR sequence.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> Enable</li><li>• <b>N:</b> Disable</li></ul>
<b>Default Value</b>	N

#### SIP\_SVCDOMAIN\_n

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

<b>Value Format</b>	STRING
<b>Description</b>	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.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Service Domain

#### SIP\_AUTHID\_n

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

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the authentication ID required to access the SIP server.

<b>Value Range</b>	Max. 128 characters (except ", &, :, <, >, and space)
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Authentication ID

## SIP\_PASS\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the authentication password used to access the SIP server.
<b>Value Range</b>	Max. 128 characters (except ", &, :, <, >, and space)
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Authentication Password

## SIP\_SRC\_PORT\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the source port number used by the unit for SIP communication.
<b>Value Range</b>	1024–49151
<b>Note</b>	<ul style="list-style-type: none"> <li>The SIP port number for each line must be unique.</li> </ul>
<b>Default Value</b>	<pre>SIP_SRC_PORT_1="5060" SIP_SRC_PORT_2="5070" SIP_SRC_PORT_3="5080" SIP_SRC_PORT_4="5090" SIP_SRC_PORT_5="5100" SIP_SRC_PORT_6="5110" SIP_SRC_PORT_7="5120" SIP_SRC_PORT_8="5130" SIP_SRC_PORT_9="5140" SIP_SRC_PORT_10="5150" SIP_SRC_PORT_11="5160" SIP_SRC_PORT_12="5170" SIP_SRC_PORT_13="5180" SIP_SRC_PORT_14="5190" SIP_SRC_PORT_15="5200" SIP_SRC_PORT_16="5210"</pre>
<b>Web User Interface Reference</b>	Local SIP Port

## DSCP\_SIP\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the DSCP level of DiffServ applied to SIP packets.

### 5.3.22 SIP Settings

<b>Value Range</b>	0–63
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	SIP Packet QoS (DSCP)

## SIP\_DNSSRV\_ENA\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to request the DNS server to translate domain names into IP addresses using the SRV record.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable DNS SRV lookup</li><li>• <b>N</b>: Disable DNS SRV lookup</li></ul>
<b>Note</b>	<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul>
<b>Default Value</b>	Y
<b>Web User Interface Reference</b>	Enable DNS SRV lookup

## SIP\_UDP\_SRV\_PREFIX\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies a prefix to add to the domain name when performing a DNS SRV lookup using UDP.
<b>Note</b>	<ul style="list-style-type: none"><li>• This setting is available only when "SIP_DNSSRV_ENA_n" is set to "Y".</li></ul>
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	_sip._udp.
<b>Web User Interface Reference</b>	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	
<b>Value Format</b>	STRING

<b>Description</b>	Specifies a prefix to add to the domain name when performing a DNS SRV lookup using TCP.
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is available only when "SIP_DNSSRV_ENA_n" is set to "Y".</li> </ul>
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	_sip._tcp.
<b>Web User Interface Reference</b>	SRV lookup Prefix for TCP

### REG\_EXPIRE\_TIME\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the length of time, in seconds, that the registration remains valid. This value is set in the "Expires" header of the REGISTER request.
<b>Value Range</b>	1–4294967295
<b>Default Value</b>	3600
<b>Web User Interface Reference</b>	REGISTER Expires Timer

### REG\_INTERVAL\_RATE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the percentage of the "expires" value after which to refresh registration by sending a new REGISTER message in the same dialog.
<b>Value Range</b>	1–100
<b>Default Value</b>	50

### REG\_RTX\_INTVL\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the interval, in seconds, between transmissions of the REGISTER request when a registration results in failure (server no reply or error reply).
<b>Value Range</b>	1–86400
<b>Default Value</b>	10

### USE\_DEL\_REG\_OPEN\_n

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

### 5.3.22 SIP Settings

<b>Description</b>	Specifies whether to enable cancelation before registration when, for example, the unit is turned on.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>y</b>: Send un-REGISTER</li><li>• <b>n</b>: Does not send</li></ul>
<b>Default Value</b>	<b>N</b>

## USE\_DEL\_REG\_CLOSE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the cancelation of registration before the SIP function shuts down when, for example, the configuration has changed.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>y</b>: Send un-REGISTER</li><li>• <b>n</b>: Does not send</li></ul>
<b>Default Value</b>	<b>N</b>

## SIP\_SESSION\_TIME\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	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.
<b>Value Range</b>	0, 60–65535 (0: Disable)
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Enable Session Timer (RFC 4028)

## SIP\_SESSION\_METHOD\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the refreshing method of SIP sessions.
<b>Value Range</b>	<ul style="list-style-type: none"><li>– 0: reINVITE</li><li>– 1: UPDATE</li><li>– 2: AUTO</li></ul>
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Session Timer Method

## SIP\_TIMER\_T1\_n

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

<b>Description</b>	Specifies the default interval, in milliseconds, between transmissions of SIP messages. For details, refer to RFC 3261.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 250</li> <li>• 500</li> <li>• 1000</li> <li>• 2000</li> <li>• 4000</li> </ul>
<b>Default Value</b>	500
<b>Web User Interface Reference</b>	T1 Timer

### SIP\_TIMER\_T2\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the maximum interval, in seconds, between transmissions of SIP messages. For details, refer to RFC 3261.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 2</li> <li>• 4</li> <li>• 8</li> <li>• 16</li> <li>• 32</li> </ul>
<b>Default Value</b>	4
<b>Web User Interface Reference</b>	T2 Timer

### SIP\_TIMER\_T4\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the maximum period, in seconds, that a message can remain on the network.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0</li> <li>• 1</li> <li>• 2</li> <li>• 3</li> <li>• 4</li> <li>• 5</li> </ul>
<b>Default Value</b>	5

### SIP\_TIMER\_B\_n

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

### 5.3.22 SIP Settings

<b>Description</b>	Specifies the value of SIP timer B (INVITE transaction timeout timer), in milliseconds. For details, refer to RFC 3261.
<b>Value Range</b>	250–64000
<b>Default Value</b>	32000

## SIP\_TIMER\_D\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the value of SIP timer D (wait time for answer resending), in milliseconds. For details, refer to RFC 3261.
<b>Value Range</b>	0, 250–64000
<b>Default Value</b>	5000

## SIP\_TIMER\_F\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the value of SIP timer F (non-INVITE transaction timeout timer), in milliseconds. For details, refer to RFC 3261.
<b>Value Range</b>	250–64000
<b>Default Value</b>	32000

## SIP\_TIMER\_H\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the value of SIP timer H (wait time for ACK reception), in milliseconds. For details, refer to RFC 3261.
<b>Value Range</b>	250–64000
<b>Default Value</b>	32000

## SIP\_TIMER\_J\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the value of SIP timer J (wait time for non-INVITE request resending), in milliseconds. For details, refer to RFC 3261.
<b>Value Range</b>	0, 250–64000
<b>Default Value</b>	5000

## SIP\_100REL\_ENABLE\_n

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

<b>Description</b>	Specifies whether to add the option tag 100rel to the "Supported" header of the INVITE message. For details, refer to RFC 3262.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>y</b>: Enable 100rel function</li> <li>• <b>n</b>: Disable 100rel function</li> </ul>
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>• If set to "<b>y</b>", 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.</li> <li>• If set to "<b>n</b>", the option tag 100rel will not be used.</li> </ul>
<b>Default Value</b>	<b>y</b>
<b>Web User Interface Reference</b>	Enable 100rel (RFC 3262)

## SIP\_18X\_RTX\_INTVL\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the retransmission interval, in seconds, for "18x" responses.
<b>Value Range</b>	0, 1–600 (0: Disable)
<b>Default Value</b>	0

## SIP\_SUBS\_EXPIRE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the length of time, in seconds, that the subscription remains valid. This value is set in the "Expires" header of the SUBSCRIBE request.
<b>Value Range</b>	1–4294967295
<b>Default Value</b>	3600

## SUB\_INTERVAL\_RATE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the percentage of the "expires" value after which to refresh subscriptions by sending a new SUBSCRIBE message in the same dialog.
<b>Value Range</b>	1–100
<b>Default Value</b>	50

## SUB\_RTX\_INTVL\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters
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### 5.3.22 SIP Settings

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the interval, in seconds, between transmissions of SUBSCRIBE requests when a subscription results in failure (server no reply or error reply).
<b>Value Range</b>	1–86400
<b>Default Value</b>	10

## SIP\_P\_PREFERRED\_ID\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to add the "P-Preferred-Identity" header to SIP messages.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>y</b>: Add the "P-Preferred-Identity" header</li><li>• <b>n</b>: Do not add the "P-Preferred-Identity" header</li></ul>
<b>Default Value</b>	<b>N</b>

## SIP\_PRIVACY\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to add the "Privacy" header to SIP messages.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>y</b>: Add the "Privacy" header</li><li>• <b>n</b>: Do not add the "Privacy" header</li></ul>
<b>Default Value</b>	<b>N</b>

## ADD\_USER\_PHONE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to add "user=phone" to the SIP URI in SIP messages.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>y</b>: Add "user=phone"</li><li>• <b>n</b>: Do not add "user=phone"</li></ul> <p><b>Note</b></p> <ul style="list-style-type: none"><li>• SIP URI example:<ul style="list-style-type: none"><li>– "<code>sip:1111@tokyo.example.com;user=phone</code>", when set to "y"</li><li>– "<code>sip:1111@tokyo.example.com</code>", when set to "n"</li></ul></li></ul>
<b>Default Value</b>	<b>N</b>

## SIP\_ANM\_DISPNAME\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the text string to set as the display name in the "From" header when making anonymous calls.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Use normal display name</li> <li>• 1: Use "Anonymous" for display name</li> <li>• 2: Do not send a display name</li> </ul>
<b>Default Value</b>	1

## SIP\_ANM\_USERNAME\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the text string to set as the user name in the "From" header when making anonymous calls.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Use normal user name</li> <li>• 1: Use "anonymous" for user name</li> <li>• 2: Do not send a user name</li> </ul>
<b>Default Value</b>	0

## SIP\_ANM\_HOSTNAME\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to set an anonymous host name in the "From" header when making anonymous calls.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Use "anonymous.invalid" for host name</li> <li>• <b>N</b>: Use normal host name</li> </ul>
<b>Default Value</b>	<b>N</b>

## SIP\_DETECT\_SSAF\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable SSAF for the SIP servers (registrar server, proxy server, and presence server).

### 5.3.22 SIP Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable SSAF</li><li>• <b>N</b>: Disable SSAF</li></ul>
	<b>Note</b> <ul style="list-style-type: none"><li>• If set to "<b>Y</b>", 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 "<b>SIP_OUTPROXY_ADDR_n</b>" in <b>5.3.22 SIP Settings</b> is specified, the unit also receives SIP messages from the source address stored in the SIP outbound proxy server.</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable SSAF (SIP Source Address Filter)

## SIP\_RCV\_DET\_HEADER\_n

For details about parameter names end with "_n", see <b>5.2.1 Configuration File Parameters</b>	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	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.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable username check</li><li>• <b>N</b>: Disable username check</li></ul>
	<b>Note</b> <ul style="list-style-type: none"><li>• If set to "<b>Y</b>", the unit will return an error reply when it receives the INVITE message with an incorrect target SIP URI.</li><li>• If set to "<b>N</b>", the unit will not check the user name part of the SIP URI in the "To" header.</li></ul>
<b>Default Value</b>	<b>N</b>

## SIP\_RCV\_DET\_REQURI\_n

For details about parameter names end with "_n", see <b>5.2.1 Configuration File Parameters</b>	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to check ReqURI that is the part of SIP URI in "To" header when INVITE with wrong target SIP URI is received.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b></li><li>• <b>N</b></li></ul>
<b>Default Value</b>	<b>N</b>

## SIP\_CONTACT\_ON\_ACK\_n

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

<b>Description</b>	Specifies whether to add the "Contact" header to SIP ACK message.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Add the "Contact" header</li> <li>• <b>N</b>: Do not add the "Contact" header</li> </ul>
<b>Default Value</b>	<b>N</b>

## VOICE\_MESSAGE\_AVAILABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies how the existence of voice messages is determined when a "Messages-Waiting: yes" message is received.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Determines that voice messages exist when "Messages-Waiting: yes" is received with a "Voice-Message" line included.</li> <li>• <b>N</b>: Determines that voice messages exist when "Messages-Waiting: yes" is received even without a "Voice-Message" line included.</li> </ul>
<b>Default Value</b>	<b>Y</b>

## SIP\_INVITE\_EXPIRE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the period, in seconds, in which the INVITE message will expire.
<b>Value Range</b>	0, 60–65535 (0: Disable)
<b>Default Value</b>	0

## SIP\_FOVR\_NORSP\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to perform the fail-over process when the unit detects that the SIP server is not replying to SIP message.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Enable fail-over</li> <li>• <b>N</b>: Disable fail-over</li> </ul>
<b>Note</b>	<ul style="list-style-type: none"> <li>• If set to "Y", the unit will try to use the other SIP servers via the DNS SRV and A records.</li> <li>• If set to "N", the unit will not try to use the other SIP servers.</li> </ul>
<b>Default Value</b>	<b>Y</b>

## SIP\_FOVR\_MAX\_n

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

### 5.3.22 SIP Settings

<b>Description</b>	Specifies the maximum number of servers (including the first [normal] server) used in the fail-over process.
<b>Value Range</b>	1–4
<b>Default Value</b>	2

## SIP\_FOVR\_MODE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether INVITE/SUBSCRIBE will also follow the REGISTER Failover result.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> INVITE/SUBSCRIBE will follow the REGISTER Failover result.</li><li>• <b>N:</b> INVITE/SUBSCRIBE will not follow the REGISTER Failover result.</li></ul>
<b>Default Value</b>	<b>N</b>

## SIP\_FOVR\_DURATION\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the number of transmission times for the REGISTER method at the Failover destination.
<b>Value Range</b>	0–255
<b>Default Value</b>	0

## SIP\_ADD\_ROUTE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether or not to add Route headers when setting OutBoundProxy.  <b>Note</b> <ul style="list-style-type: none"><li>• Route headers are not added when OutBoundProxy and other server settings are the same.</li></ul>
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> Route headers are added</li><li>• <b>N:</b> Route headers are not added</li></ul>
<b>Default Value</b>	<b>Y</b>

## SIP\_REQURI\_PORT\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to add the port parameter to the Request-Line in the initial SIP request.

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Add the port parameter</li> <li>• <b>N</b>: Do not add the port parameter</li> </ul>
<b>Note</b>	<ul style="list-style-type: none"> <li>• Request URI in REGISTER example: <ul style="list-style-type: none"> <li>– If set to "<b>Y</b>", the port parameter is added to the Request-Line, as follows: Request-Line: REGISTER sip:192.168.0.10:5060 SIP/2.0</li> <li>– If set to "<b>N</b>", the port parameter is not added to the Request-Line, as follows: Request-Line: REGISTER sip:192.168.0.10 SIP/2.0</li> </ul> </li> </ul>
<b>Default Value</b>	<b>Y</b>

## ADD\_EXPIRES\_HEADER\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to add an "Expires" header to REGISTER (adds an "expires" parameter to the "Contact" header).
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Add Expires Header</li> <li>• <b>N</b>: Do not add Expires Header</li> </ul>
<b>Default Value</b>	<b>N</b>

## ADD\_TRANSPORT\_UDP\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to add the attribute "transport=udp" to the SIP header URI.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Add Transport UDP</li> <li>• <b>N</b>: Do not add Transport UDP</li> </ul>
<b>Default Value</b>	<b>N</b>

## SIP\_ADD\_DIVERSION\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to add Diversion header information.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>– 0: Do not add Diversion header information</li> <li>– 1: Use own diversion information only for the Diversion header</li> <li>– 2: Add diversion information to existing Diversion header</li> </ul>
<b>Default Value</b>	0

**TRANSFER\_RECALL\_TIM**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the time that the original call is resumed when the forwarding party does not response by Refer method for call transfer.
<b>Value Range</b>	0, 1–240
<b>Default Value</b>	0

**SIGNAL\_COMPRESSION\_n**

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to use signal compression. When using signal compression, select Required or Supported.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Disable</li> <li>• 1: Enable (Required)</li> <li>• 2: Enable (Supported)</li> </ul>
<b>Default Value</b>	0

**MAX\_BREADTH\_n**

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the Max Breadth that is max Folk number at Proxy.
<b>Value Range</b>	0–99 (0: Not add max-breadth header)
<b>Default Value</b>	60

**MUTIPART\_BOUNDARY\_DELIMITTER\_n**

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the strings that indicates the boundary for Multipart Bodies.
<b>Value Range</b>	Max. 70 characters
<b>Default Value</b>	boundary1

**RINGTON\_183\_180\_ENABLE\_n**

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to ring the local ringback tone when 180 is received after receiving 183 Early media.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>y</b>: Performs ringback tone after early media</li> <li>• <b>n</b>: Does not perform</li> </ul>
<b>Default Value</b>	<b>N</b>

## SIP\_403\_REG\_SUB\_RTX\_n

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

<b>Value Format</b>	BOOLEAN
<b>Description</b>	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.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Send</li> <li>• <b>N:</b> Do not send</li> </ul>
<b>Default Value</b>	<b>N</b>

## SIP\_FORK\_MODE\_n

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

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to use SIP Fork.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Use SIP Fork</li> <li>• <b>N:</b> Not use SIP Fork</li> </ul>
<b>Default Value</b>	<b>Y</b>

## AKA\_AUTHENTICATION\_ENABLE\_n

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

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to use AKA authentication.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Use AKA authentication</li> <li>• <b>N:</b> Not use AKA authentication</li> </ul>
<b>Default Value</b>	<b>N</b>

## RFC2543\_HOLD\_ENABLE\_n

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

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the RFC 2543 Call Hold feature on this line.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable RFC 2543 Call Hold</li> <li>• <b>N:</b> Disable RFC 2543 Call Hold</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• If set to "N", the "c=x.x.x.x" syntax will be set in SDP.</li> </ul>
<b>Default Value</b>	<b>Y</b>

### 5.3.22 SIP Settings

Web User Interface Reference	Enable c=0.0.0.0 Hold (RFC 2543)
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## SIP\_HOLD\_ATTRIBUTE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to set "a=inactive" or not when the call is on hold.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 0: send only</li><li>• 1: inactive</li></ul>
<b>Default Value</b>	0

## SDP\_USER\_ID\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the user ID used in the "o=" line field of SDP.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string

## TELEVNT\_PAYLOAD

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the RFC 2833 payload type for DTMF tones.
<b>Note</b>	<ul style="list-style-type: none"><li>• This setting is available only when "DTMF_METHOD_n" is set to "0".</li></ul>
<b>Value Range</b>	96–127
<b>Default Value</b>	101
<b>Web User Interface Reference</b>	Telephone-event Payload Type

## HOLD\_SOUND\_PATH\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	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.
<b>Note</b>	<ul style="list-style-type: none"><li>• It is necessary to set the following parameters to play the unit's hold tone.<ul style="list-style-type: none"><li>– HOLD_TONE_FRQ</li><li>– HOLD_TONE_GAIN</li></ul></li></ul>

<b>Value Range</b>	0–1 – 0: The unit's hold tone is played. – 1: The network server's hold tone (Music on hold) is played.
<b>Default Value</b>	0

## KEEP\_EARLYMEDIA\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	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.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Continues</li> <li>• <b>N:</b> Does not continue (Switch to ringback tone)</li> </ul>
<b>Default Value</b>	N

## RFC3327\_SUPPORT\_PATH

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to add "supported: path" to support Path header.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Adds supported: path</li> <li>• <b>N:</b> Does not add</li> </ul>
<b>Default Value</b>	Y

## RFC4244\_SUPPORT\_HISTORY

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to add "supported: history" to support History info header.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Adds supported: history</li> <li>• <b>N:</b> Does not add</li> </ul>
<b>Default Value</b>	N

## RFC3319\_SUPPORT\_JOIN

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to add "supported: join" to support join header.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Adds supported: join</li> <li>• <b>N:</b> Does not add</li> </ul>
<b>Default Value</b>	N

## RFC6947\_DRAFT08\_ALTC

<b>Value Format</b>	BOOLEAN
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<b>Description</b>	Specifies whether to support RFC6947 draft08 when the attvalue is not attached after altc.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Performs ALTC by Draft08</li><li>• <b>N</b>: Performs ALTC by RFC6947</li></ul>
<b>Default Value</b>	<b>Y</b>

## RFC5627\_SUPPORT\_GRUU\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to add "supported: gruu" to support join header.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Adds supported: gruu</li><li>• <b>N</b>: Does not add</li></ul>
<b>Default Value</b>	<b>N</b>

## ESCAPECODE\_CONVERSION

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to convert "#" code to "%23".
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Convert "#" code to "%23"</li><li>• <b>N</b>: Does not convert</li></ul>
<b>Default Value</b>	<b>Y</b>

## SIP\_REPLACE\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to use "Replaces" Header.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Use "Replaces" Header</li><li>• <b>N</b>: Do not use "Replaces" Header</li></ul>
<b>Default Value</b>	<b>Y</b>

## SIP\_REFRESHER\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to add the refresher parameter for Session Expire in SIP INVITE.
<b>Value Range</b>	<ul style="list-style-type: none"><li>0–2<ul style="list-style-type: none"><li>– 0: Do not add the refresher parameter</li><li>– 1: Add the refresher parameter with the value "UAS"</li><li>– 2: Add the refresher parameter with the value "UAC"</li></ul></li></ul>

<b>Default Value</b>	0
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## ENH\_FOVR\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable Enhanced Failover mode.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>

## ENH\_FOVR\_RANDOM\_TIMER\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	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.
<b>Note</b>	<ul style="list-style-type: none"> <li>• This setting is available only when "ENH_FOVR_ENABLE_n" is set to "Y".</li> <li>• For the fixed value setting, see "REG_RTX_INTVL_n" in this section.</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Use a random value</li> <li>• <b>N:</b> Use a fixed value</li> </ul>
<b>Default Value</b>	<b>N</b>

## ENH\_FOVR\_RANDOM\_MAX\_TIME\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	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.
<b>Note</b>	<ul style="list-style-type: none"> <li>• This setting is available only when "ENH_FOVR_RANDOM_TIMER_n" is set to "Y".</li> </ul>
<b>Value Range</b>	10-86400
<b>Default Value</b>	15

## ENH\_FOVR\_RANDOM\_MIN\_TIME\_n

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

### 5.3.22 SIP Settings

<b>Description</b>	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.
<b>Note</b>	<ul style="list-style-type: none"><li>• This setting is available only when "ENH_FOVR_RANDOM_TIMER_n" is set to "Y".</li></ul>
<b>Value Range</b>	10-86400
<b>Default Value</b>	10

## SIP\_INC\_INVITE\_RTP\_MODE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to send RTP after receiving a second INVITE.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 0: Start receiving RTP after receiving a second INVITE</li><li>• 1: Start sending/receiving RTP after receiving a second INVITE</li></ul>
<b>Default Value</b>	0

## SIP\_183\_TALK\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the unit's state is "Talking" or "Calling" when it receives a SIP 183 message.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Y: Talking</li><li>• N: Calling</li></ul>
<b>Default Value</b>	N

## SEND\_180\_ALERT\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to send 180 before an alert.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Y: Send 180</li><li>• N: Do not send 180</li></ul>
<b>Default Value</b>	N

## INVITE\_403\_REGSEND\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable sending a REGISTER request to the SIP server after receiving 403 error in response to an INVITE request.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Y: Enable</li><li>• N: Disable</li></ul>

<b>Default Value</b>	N
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**ENH\_FOVR\_408\_ENABLE\_n**

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable failover after receiving a 408 error from the SIP server.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Y: Enable</li> <li>• N: Disable</li> </ul>
<b>Default Value</b>	N

**ESCAPECODE\_CONVERSION\_RFC3986**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to comply with RFC2396 or RFC3986 for reserved characters.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• Y: RFC3986 compliant</li> <li>• N: RFC2396 compliant</li> </ul>
<b>Default Value</b>	N

**5.3.23 SIP-TLS Settings****SIP\_TRANSPORT\_n**

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies which transport layer protocol to use for sending SIP packets.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: UDP</li> <li>• 1: TCP</li> <li>• 2: TLS</li> </ul>
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Transport Protocol

**SIP\_TLS\_MODE\_n**

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the secure SIP protocol.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: SIPS</li> <li>• 1: SIP-TLS</li> </ul>
<b>Default Value</b>	0

### 5.3.23 SIP-TLS Settings

Web User Interface Reference	TLS Mode
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#### SIP\_TLS\_RECONNECT\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to perform TLS reconnect after TLS session is disconnected.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Performs TLS connection automatically</li><li>• <b>N</b>: Does not perform</li></ul>
<b>Default Value</b>	<b>Y</b>

#### SIP\_TLS\_SRV\_PREFIX\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies a prefix to add to the domain name when performing a DNS SRV lookup using TLS.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	_sips._tcp.
<b>Web User Interface Reference</b>	SRV lookup Prefix for TLS

#### SIP\_TLS\_VERIFY\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to enable the verification of the root certificate.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 0: No verification</li><li>• 1: Simple verification</li><li>• 2: Precise verification</li></ul>
<b>Default Value</b>	0

#### SIP\_TLS\_ROOT\_CERT\_PATH

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URI where the root certificate is stored.
<b>Value Range</b>	Max. 384 characters
	<b>Note</b> <ul style="list-style-type: none"><li>• For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li></ul>
<b>Default Value</b>	Empty string

## SIP\_TLS\_CLIENT\_CERT\_PATH

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URI where the client certificate is stored.
<b>Value Range</b>	Max. 384 characters
<b>Note</b>	<ul style="list-style-type: none"> <li>For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li> </ul>

**Default Value** Empty string

## SIP\_TLS\_PKEY\_PATH

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the URI where the private key is stored.
<b>Value Range</b>	Max. 384 characters
<b>Note</b>	<ul style="list-style-type: none"> <li>For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li> </ul>

**Default Value** Empty string

## SIP\_TLS\_RANDOM\_PORT

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to assign a random port (ephemeral port) number or a static port number.
<b>Note</b>	<ul style="list-style-type: none"> <li>All lines that use SIP-TLS are defined by this parameter.</li> <li>UDP/TCP ports are unaffected by this parameter.</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Assign a random TLS port number</li> <li><b>N:</b> Assign a static TLS port number (Refer to <b>SIP_SRC_PORT_n</b>)</li> </ul>

**Default Value** Y

## 5.3.24 CODEC Settings

### CODEC\_G729\_PARAM\_n

For details about parameter names end with "_n", see <b>5.2.1 Configuration File Parameters</b>	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to add an attribute line, "a=fmtp:18 annexb=no", to SDP when the codec is set to "G729A".
<b>Value Range</b>	<ul style="list-style-type: none"> <li>0: Do not add "a=fmtp:18 annexb=no"</li> <li>1: Add "a=fmtp:18 annexb=no"</li> </ul>
<b>Default Value</b>	0

**CODEC\_ENABLEx\_n**

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

<b>Value Format</b>	BOOLEAN
<b>Description</b>	<p>Specifies whether to enable the codec specified in the parameter list.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• The "x" character in the parameter title should be changed to one of the following numbers, according to the codec to be changed. <ul style="list-style-type: none"> <li>– 0: G.722</li> <li>– 1: PCMA</li> <li>– 3: G.729A</li> <li>– 4: PCMU</li> </ul> </li> <li>• For codec setting examples, see <b>2.5.1 Examples of Codec Settings</b>.</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>y</b>: Enable</li> <li>• <b>n</b>: Disable</li> </ul>
<b>Default Value</b>	<b>y</b>
<b>Web User Interface Reference</b>	<ul style="list-style-type: none"> <li>• G.722 Enable</li> <li>• PCMA Enable</li> <li>• G.729A Enable</li> <li>• PCMU Enable</li> </ul>

**CODEC\_PRIORITYx\_n**

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

<b>Value Format</b>	INTEGER
<b>Description</b>	<p>Specifies the priority order for the codec.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• The "x" character in the parameter title should be changed to one of the following numbers, according to the codec to be changed. <ul style="list-style-type: none"> <li>– 0: G.722</li> <li>– 1: PCMA</li> <li>– 3: G.729A</li> <li>– 4: PCMU</li> </ul> </li> <li>• For codec setting examples, see <b>2.5.1 Examples of Codec Settings</b>.</li> </ul>
<b>Value Range</b>	1–255
<b>Default Value</b>	1

<b>Web User Interface Reference</b>	<ul style="list-style-type: none"> <li>• G.722 Priority</li> <li>• PCMA Priority</li> <li>• G.729A Priority</li> <li>• PCMU Priority</li> </ul>
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## CODEC\_G711\_REQ

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to automatically select "PCMU" as the codec when a codec other than "PCMU" is selected.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Do not set "PCMU"</li> <li>• 1: Set "PCMU"</li> </ul>
<b>Default Value</b>	1

## 5.3.25 DTMF Settings

### DTMF\_METHOD\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the method to notify the DTMF.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: RFC2833</li> <li>• 1: Inband</li> <li>• 2: SIP INFO</li> <li>• 3: RFC2833 &amp; SIP INFO</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• RFC2833 refers to Outband DTMF.</li> <li>• Inband refers to Inband DTMF.</li> </ul>
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	DTMF Type

### OUTBANDDTMF\_VOL

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the volume (in decibels [dB]) of the DTMF tone using RFC 2833.
<b>Value Range</b>	-63–0
<b>Default Value</b>	-5

### INBANDDTMF\_VOL

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the volume (in decibels [dB]) of in-band DTMF tones.

### 5.3.26 RTP/RTCP/RTCP-XR Settings

<b>Value Range</b>	-46–0
<b>Default Value</b>	-5

#### DTMF\_SIGNAL\_LEN

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the length of the DTMF signal, in milliseconds.
<b>Value Range</b>	60–200
<b>Default Value</b>	180

#### DTMF\_INTDIGIT\_TIM

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the interval, in milliseconds, between DTMF signals.
<b>Value Range</b>	60–200
<b>Default Value</b>	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	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the DSCP level of DiffServ applied to RTP packets.
<b>Value Range</b>	0–63
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	RTP Packet QoS (DSCP)

#### DSCP\_RTCP\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the DSCP level of DiffServ applied to RTCP/RTCP-XR packets.
<b>Value Range</b>	0–63
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	RTCP Packet QoS (DSCP)

#### MAX\_DELAY\_n

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

<b>Value Range</b>	3–50 ( $\times 10$ ms)
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is subject to the following conditions:           <ul style="list-style-type: none"> <li>This value must be greater than "<b>NOM_DELAY</b>"</li> <li>This value must be greater than "<b>MIN_DELAY</b>"</li> <li>"<b>NOM_DELAY</b>" must be greater than or equal to "<b>MIN_DELAY</b>"</li> </ul> </li> </ul>
<b>Default Value</b>	20

### MIN\_DELAY\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the minimum delay, in 10-millisecond units, of the jitter buffer.
<b>Value Range</b>	1 or 2 ( $\times 10$ ms)
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is subject to the following conditions:           <ul style="list-style-type: none"> <li>This value must be less than or equal to "<b>NOM_DELAY</b>"</li> <li>This value must be less than "<b>MAX_DELAY</b>"</li> <li>"<b>MAX_DELAY</b>" must be greater than "<b>NOM_DELAY</b>"</li> </ul> </li> </ul>
<b>Default Value</b>	2

### NOM\_DELAY\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the initial delay, in 10-millisecond units, of the jitter buffer.
<b>Value Range</b>	1–7 ( $\times 10$ ms)
<b>Note</b>	<ul style="list-style-type: none"> <li>This setting is subject to the following conditions:           <ul style="list-style-type: none"> <li>This value must be greater than or equal to "<b>MIN_DELAY</b>"</li> <li>This value must be less than "<b>MAX_DELAY</b>"</li> </ul> </li> </ul>
<b>Default Value</b>	1

### RTP\_PORT\_MIN

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the lowest port number that the unit will use for RTP packets.
<b>Value Range</b>	1024–59598 (only even)

### 5.3.26 RTP/RTCP/RTCP-XR Settings

<b>Default Value</b>	16000
<b>Web User Interface Reference</b>	Minimum RTP Port Number

#### RTP\_PORT\_MAX

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the highest port number that the unit will use for RTP packets.
<b>Value Range</b>	1424–59998 (only even)
<b>Default Value</b>	20000
<b>Web User Interface Reference</b>	Maximum RTP Port Number

#### RTP\_PTIME

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the interval, in milliseconds, between transmissions of RTP packets.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 20</li><li>• 30</li><li>• 40</li><li>• 60</li></ul>
<b>Default Value</b>	20
<b>Web User Interface Reference</b>	RTP Packet Time

#### RTCP\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable RTCP (Real-Time Transport Control Protocol). For details, refer to RFC 3550.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>y</b>: Enable RTCP</li><li>• <b>n</b>: Disable RTCP</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable RTCP

#### RTCP\_INTVL\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the interval, in seconds, between RTCP/RTCP-XR packets.
<b>Value Range</b>	5–65535
<b>Default Value</b>	5
<b>Web User Interface Reference</b>	RTCP&RTCP-XR Interval

## RTCP\_SEND\_BY\_SD\_P\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to send RTCP signals by SDP (Session Description Protocol).
<b>Value Range</b>	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=rtp;".
<b>Default Value</b>	0

## RTP\_CLOSE\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable processing to close held RTP sockets.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Enable RTP Close</li> <li>• <b>N</b>: Disable RTP Close</li> </ul>
<b>Default Value</b>	<b>N</b>

## RTCPXR\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable RTCP-XR.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Enable RTCP-XR</li> <li>• <b>N</b>: Disable</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	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	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the mode of SRTP feature.

### 5.3.27 SRTP Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li>• 0: SRTP</li><li>• 1: RTP/SRTP</li><li>• 2: Panasonic Original</li><li>• 3: SRTP/RTP</li></ul>
	<b>Note</b> <ul style="list-style-type: none"><li>• 0: Use only SRTP for outgoing and incoming calls.</li><li>• 1: Use only RTP for outgoing calls, and RTP or SRTP for incoming calls.</li><li>• 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".</li><li>• 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.</li></ul>
<b>Default Value</b>	1
<b>Web User Interface Reference</b>	SRTP Mode

## SRTP\_MIX\_CONFERENCE\_ENABLE\_n

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

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to allow conferences where each participant can use either SRTP or RTP.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable</li><li>• <b>N</b>: Disable</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	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

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to allow call transfers between a user who is using SRTP and a user who is using RTP.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable</li><li>• <b>N</b>: Disable</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable Mixed SRTP & RTP by Transfer

## **SRTP\_HELD\_CALL\_RTP\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to allow playing the melody on hold over RTP on a call that is using SRTP.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

## **SRTP\_CALL\_MODE\_ENABLE (For KX-HDV230/KX-HDV330/KX-HDV430)**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the unit to use only encrypted call mode (SRTP dedicated mode).
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable only encrypted call mode (SRTP dedicated mode)</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>

## **DISPLAY\_SRTP\_CALL\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Selects whether an icon is displayed when the unit is using encrypted call mode (SRTP).  <b>Note</b> If you enable displaying the encrypted call mode icon during SRTP calls, it is recommended that you set <b>SIP_TRANSPORT_n="2"</b> to encrypt the SIP packets using TLS encryption.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Display an icon for encrypted calls</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>

## **SRTP\_VIDEO\_CALL\_SDP\_ENABLE\_n (For KX-HDV430)**

<b>Parameter Name Example</b>	For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable video calls with SDP in SRTP mode.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable to Video Call for SDP</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

## 5.3.28 VQ Report by PUBLISH

### VQREPORT\_COLLECTOR\_ADDRESS

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of the collector server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Server Address

### VQREPORT\_COLLECTOR\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port of the collector server.
<b>Value Range</b>	1–65535
<b>Default Value</b>	5060
<b>Web User Interface Reference</b>	Port

### VQREPORT\_SEND

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the sending type of the VQ report using PUBLISH.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Disable</li> <li>• 1: End of Session Report Using PUBLISH</li> <li>• 2: Interval report Using PUBLISH</li> <li>• 3: Alert Report Using PUBLISH</li> </ul>
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Enable PUBLISH

### ALERT\_REPORT\_TRIGGER

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the trigger to notify the VQ report.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Warning</li> <li>• 1: Critical</li> </ul>
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Alert Report Trigger

### ALERT\_REPORT\_MOSQ\_CRITICAL

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the critical criteria to send VQ report at the time of occurring the MOSQ.
<b>Value Range</b>	0–40

<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Threshold MOS-LQ (Critical)

## ALERT\_REPORT\_MOSQ\_WARNING

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the warning criteria to send VQ report at the time of occurring the MOSQ.
<b>Value Range</b>	0–40
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Threshold MOS-LQ (Warning)

## ALERT\_REPORT\_DELAY\_CRITICAL

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the critical criteria to send VQ report at the time of occurring the delay.
<b>Value Range</b>	0–2000
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Threshold Delay (Critical)

## ALERT\_REPORT\_DELAY\_WARNING

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the warning criteria to send VQ report at the time of occurring the delay.
<b>Value Range</b>	0–2000
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Threshold Delay (Warning)

## VQREPORT\_SIGNAL\_COMPRESSION

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to use signal compression for sending VQ report.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>

## VQREPORT\_SEND\_OPT\_CODEC\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the sending of VQREPORT (SIP-PUBLISH) when the codec is changed.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Send VQREPORT when a change of codec is detected</li> <li>• <b>N:</b> Send VQREPORT at the end of a conversation</li> </ul>

### 5.3.29 uaCSTA Settings

Default Value	N
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#### VQREPORT\_SEND\_OPT\_NW\_CHANGE

<b>Value Format</b>	INTEGER
<b>Description</b>	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.
<b>Value Range</b>	0–5 (The number of consecutive times. 0:Disable)
<b>Note</b>	If "2" is specified and the MOS value falls within the threshold 2 consecutive times, VQREPORT is sent.
<b>Default Value</b>	0

### 5.3.29 uaCSTA Settings

#### UACSTA\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the uaCSTA feature.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> Enable</li><li>• <b>N:</b> Disable</li></ul>
<b>Default Value</b>	N

#### UACSTA\_UNIQUE\_ID

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the SIP-URI for registering to CSTA server.
<b>Value Range</b>	Max. 64 characters
<b>Default Value</b>	Empty string

#### CSTA\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the source port number used by the unit for uaCSTA communication.
<b>Value Range</b>	1–65535
<b>Default Value</b>	6060

## CSTA\_PRXY\_ADDR

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of the proxy server for CSTA.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string

## CSTA\_PRXY\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port of the proxy server for CSTA.
<b>Value Range</b>	1–65535
<b>Default Value</b>	5060

## CSTA\_RGSTR\_ADDR

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of the registrar server for CSTA.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string

## CSTA\_RGSTR\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port of the registrar server for CSTA.
<b>Value Range</b>	1–65535
<b>Default Value</b>	5060

## CSTA\_REG\_EXPIRE\_TIME

<b>Value Format</b>	INTEGER
<b>Description</b>	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.
<b>Value Range</b>	1–4294967295
<b>Default Value</b>	3600

## CSTA\_TRANSPORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies which transport layer protocol to use for sending SIP packets.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: UDP</li> <li>• 1: TCP</li> <li>• 2: TLS</li> </ul>

### 5.3.30 Telephone Settings

Default Value	0
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#### 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.  <b>Note</b> <b>KX-HDV130/KX-HDV230</b> <ul style="list-style-type: none"><li>• Size: 132 × 64</li><li>• File type: BMP (1 bit)</li></ul> <b>KX-HDV330/KX-HDV430</b> <ul style="list-style-type: none"><li>• Size: 480 × 272</li><li>• File type: JPEG, PNG, BMP, GIF</li></ul>
Value Range	Max. 384 characters  <b>Note</b> <ul style="list-style-type: none"><li>• For details about the formats, see <b>2.1.3 Server Address Formats</b>.</li></ul>
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**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the length of time, in seconds, within which subsequent digits of a dial number must be dialed.
<b>Value Range</b>	1–15 (s)
<b>Default Value</b>	5
<b>Web User Interface Reference</b>	Inter-digit Timeout

**POUND\_KEY\_DELIMITER\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the # key is treated as a regular dialed digit or a delimiter, when dialed as or after the second digit.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> # is treated as the end of dialing delimiter</li> <li>• <b>N:</b> # is treated as a regular dialed digit</li> </ul>
<b>Default Value</b>	Y
<b>Web User Interface Reference</b>	Enable # Key as delimiter

**RINGTONES\_SETTING\_n**

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the ringtone to each line for a unit.
<b>Value Range</b>	1–32
<b>Default Value</b>	RINGTONES_SETTING_1=1, RINGTONES_SETTING_2=2, RINGTONES_SETTING_3=3, RINGTONES_SETTING_4=4, RINGTONES_SETTING_5=5, RINGTONES_SETTING_6=6, RINGTONES_SETTING_7=7, RINGTONES_SETTING_8=8, RINGTONES_SETTING_9=1, RINGTONES_SETTING_10=2, RINGTONES_SETTING_11=3, RINGTONES_SETTING_12=4, RINGTONES_SETTING_13=5, RINGTONES_SETTING_14=6, RINGTONES_SETTING_15=7, RINGTONES_SETTING_16=8

**DISPLAY\_NAME\_REPLACE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the name saved in the phonebook is used in place of the name display if a matching entry is found.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable Display Name Replace</li> <li>• <b>N:</b> Disable Display Name Replace</li> </ul>
<b>Default Value</b>	Y

**NUMBER\_MATCHING\_LOWER\_DIGIT**

<b>Value Format</b>	INTEGER
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### 5.3.30 Telephone Settings

<b>Description</b>	Specifies the minimum number of digits with which to match a phonebook entry with an incoming call's caller ID.
<b>Value Range</b>	0–15
<b>Default Value</b>	7

## NUMBER\_MATCHING\_UPPER\_DIGIT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the maximum number of digits with which to match a phonebook entry with an incoming call's caller ID.
<b>Value Range</b>	0–15
<b>Default Value</b>	10

## FLASH\_RECALL\_TERMINATE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies the function of the "Flash/Recall" button during a conversation.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>y:</b> Terminate</li><li>• <b>n:</b> EFA</li></ul>
<b>Default Value</b>	<b>y</b>

## FLASHHOOK\_CONTENT\_TYPE

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the type of signal sent when sending a flash hook event.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Signal</b></li><li>• <b>flashhook</b></li></ul>
<b>Default Value</b>	<b>Signal</b>

## NUM\_PLAN\_PARKING

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the call parking number.
<b>Value Range</b>	0–4 digits (0–9, *, #)
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Call Park Number

## CALLPARK\_KEY\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to display "Call Park" in the Call Parking Func menu.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>y:</b> Enable</li><li>• <b>n:</b> Disable</li></ul>

<b>Default Value</b>	N
<b>Web User Interface Reference</b>	Enable Call Park Key

## NUM\_PLAN\_PARK\_RETRIEVING

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the park retrieve number.
<b>Value Range</b>	0–4 digits (0–9, *, #)
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Park Retrieve Number

## IDLE\_SOFT\_KEY\_PARK\_RETRIEVING (For KX-HDV130/KX-HDV230)

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether to have soft key for the park retrieving.  <b>Note</b> <ul style="list-style-type: none"><li>• 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).</li></ul>
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 0: Not Use</li><li>• 1: Soft Key A (Left)</li><li>• 2: Soft Key B (Center)</li><li>• 3: Soft Key C (Right)</li></ul>
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Park Retrieve Soft Key (For KX-HDV130/KX-HDV230)

## HOLD\_RECALL\_TIM

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the duration of the hold recall timer. If set to "0", the function is disabled.
<b>Value Range</b>	0–240 (0: Disable)
<b>Default Value</b>	60

## HOLD\_TRANSFER\_OPERATION

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to transfer a call by Hold button.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• Y: Enable (Press the Hold button to transfer a call.) talk → hold → 2nd talk → Transfer (or on-hook)</li><li>• N: Disable (Press the Transfer button to transfer a call.) talk → transfer → 2nd talk → transfer (or on-hook)</li></ul>

### 5.3.30 Telephone Settings

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Default Value	N
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#### ONHOOK\_TRANSFER\_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable on hook transfer when <code>HOLD_TRANSFER_OPERATION="N"</code> .
Value Range	<ul style="list-style-type: none"><li>• Y: Enable On-hook Transfer</li><li>• N: Disable On-hook Transfer</li></ul>
Default Value	Y

#### ONHOOK\_HOLD\_TRNS\_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable on hook transfer when <code>HOLD_TRANSFER_OPERATION="Y"</code> .
Value Range	<ul style="list-style-type: none"><li>• Y: Enable On-hook Transfer</li><li>• N: Disable On-hook Transfer</li></ul>
Default Value	N

#### BLIND\_TRANSFER\_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable blind transfer.
Value Range	<ul style="list-style-type: none"><li>• Y: Enable</li><li>• N: Disable</li></ul>
Default Value	Y

#### SYS\_LOCK\_ENABLE

Value Format	BOOLEAN
Description	Specifies whether to enable locking the unit.
Value Range	<ul style="list-style-type: none"><li>• Y: Enable</li><li>• N: Disable</li></ul>
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**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable pause input.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>

**NUM\_PLAN\_PICKUP\_DIRECT**

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

**NUM\_PLAN\_BARGE\_IN**

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

**DISP\_NUM\_PHONEBOOK\_ENABLE (For KX-HDV330/KX-HDV430)**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the number of remaining items is displayed when a new item is registered in phonebook.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

**WALLPAPER\_WAIT\_TIME**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the time, in seconds, to wait for the screen saver to display.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0 (Do not display the screen saver)</li> <li>• 10</li> <li>• 30</li> <li>• 60</li> <li>• 180</li> <li>• 300</li> </ul>

### 5.3.30 Telephone Settings

<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Wait Time

## CNIP\_FROM\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to use the 'FROM' header or the 'PAI' header in CNIP (Calling Number Identification Presentation).
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> Use 'FROM' header</li><li>• <b>N:</b> Use 'PAI' header</li></ul>
<b>Default Value</b>	<b>N</b>

## IDLE\_DISPLAY\_TYPE

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies what is shown on the display in standby mode.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 0: Off</li><li>• 1: Phone Number</li><li>• 2: Phone Number and Name</li><li>• 3: Name</li></ul>
<b>Note</b>	"Name" is the display name for the line.
<b>Default Value</b>	1

## CNIP\_CALL\_PA1\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable using the 'PAI' header in CNIP (Calling Number Identification Presentation) on the display when calling.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> Enable</li><li>• <b>N:</b> Disable</li></ul>
<b>Default Value</b>	<b>Y</b>

## SOFT\_KEY\_LABELx (For KX-HDV130/KX-HDV230)

<b>Value Format</b>	STRING
<b>Description</b>	x=1-3 Specifies the text of the soft keys displayed on the screen for quick dialing.  <b>Note</b> This setting is available only when "DISCLOSE_FUNCTION_ENABLE" is set to "Y".
<b>Value Range</b>	Max. 5 characters

<b>Default Value</b>	SOFT_KEY_LABEL1: 1 SOFT_KEY_LABEL2: 2 SOFT_KEY_LABEL3: 3
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**SOFT\_KEY\_QUICK\_DIALx (For KX-HDV130/KX-HDV230)**

<b>Value Format</b>	STRING
<b>Description</b>	x=1-3 Specifies quick-dial numbers to assign to the soft keys.
<b>Note</b>	This setting is available only when "DISCLOSE_FUNCTION_ENABLE" is set to "Y".
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string

**BLF\_DISPLAY\_OFF\_OUTGOING**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to display the phone numbers of BLF keys or PAI after dialing.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Do not display</li> <li>• <b>N:</b> Display the phone numbers</li> </ul>
<b>Default Value</b>	<b>N</b>

**SPLIT\_HOLD\_TRNS\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the Call Split feature by pressing the HOLD key while a call is either on transfer hold or conference hold.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable the Call Split feature by using the HOLD key</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>

**NUM\_PLAN\_PICKUP\_GROUP**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the feature number for performing "Group Pickup".
<b>Value Range</b>	0–4 digits (0–9, *, #)
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Group Call Pickup

**PB\_QUICK\_SEARCH\_ENABLE (For KX-HDV330/KX-HDV430)**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable using the Quick-search operation when searching for an item in the phonebook.

### 5.3.30 Telephone Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> Enable</li><li>• <b>N:</b> Disable</li></ul>
<b>Default Value</b>	<b>N</b>

## CALLPARK\_METHOD

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the method for the "Call Park" function.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 1: Info message type</li><li>• 2: Refer type</li></ul>
<b>Default Value</b>	2

## CALL\_PARK\_PROG\_KEY\_MODE

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the Call Park operation when it is assigned to a function key.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 0: Numbering plan</li><li>• 1: Specified park area with "CALLPARK_METHOD".</li></ul>
<b>Default Value</b>	0

## SUBS\_CALLPARK\_AREA\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to send "SUBSCRIBE" for each call park area.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> Enable sending "SUBSCRIBE" for each call park area.</li><li>• <b>N:</b> Disable</li></ul>
<b>Default Value</b>	<b>N</b>

## RINGER\_VOLUME\_LEVEL

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

## RINGER\_VOL\_OPERATION\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable ringer volume adjustment.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> Enable ringer volume adjustment</li><li>• <b>N:</b> Disable</li></ul>
<b>Default Value</b>	<b>Y</b>

## 5.3.31 Flexible Key Settings

### FLEX\_BUTTON\_FACILITY\_ACTx

<b>Value Format</b>	STRING
<b>Description</b>	<p>x=1–2 – KX-HDV130</p> <p>x=1–24 – KX-HDV230/KX-HDV330/KX-HDV430</p> <p>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.</p>
<b>Note</b>	<ul style="list-style-type: none"> <li>If this parameter is specified, "FLEX_BUTTON_QUICK_DIALx" should be an empty string.</li> </ul>
<b>Value Range</b>	<p>KX-HDV130</p> <p>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</p> <p>KX-HDV230/KX-HDV330/KX-HDV430</p> <p>X_PANASONIC_IPTEL_LINE,      X_PANASONIC_IPTEL_ONETOUCH,      X_PANASONIC_IPTEL_ACD,      X_PANASONIC_IPTEL_WRAPUP,      X_PANASONIC_IPTEL_BLF,      X_PANASONIC_IPTEL_LINESSTATUS,      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)</p>
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Type

### 5.3.31 Flexible Key Settings

#### FLEX\_BUTTON\_FACILITY\_ARGx

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

#### FLEX\_BUTTON\_LABELx (For KX-HDV230/KX-HDV330/KX-HDV430)

<b>Value Format</b>	STRING
<b>Description</b>	x=1–24 Specifies the name of flexible key to be displayed on the screen.
<b>Value Range</b>	Max. 20 characters
	<b>Note</b> <ul style="list-style-type: none"><li>• You can use Unicode characters for this setting.</li></ul>
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Label Name

#### FLEX\_BUTTON\_QUICK\_DIALx

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

#### LONG\_PRESS\_KEY\_SETTING\_ENABLE (For KX-HDV230/KX-HDV330/KX-HDV430)

<b>Value Format</b>	BOOLEAN
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<b>Description</b>	Selects whether to enable or disable the flexible key or DSS key with a long press.
<b>Note</b>	For KX-HDV330/KX-HDV430, this function is valid only for DSS key.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

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

### DSS\_BUTTON\_FACILITY\_ACTx

<b>Value Format</b>	STRING
<b>Description</b>	<p>x=1–200</p> <p>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.</p>
<b>Note</b>	<ul style="list-style-type: none"> <li>• If this parameter is specified, "DSS_BUTTON_QUICK_DIALx" should be an empty string.</li> </ul>
<b>Value Range</b>	<p>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_GROUPOPICKUP,      X_PANASONIC_IPTEL_PRESENCE,      X_PANASONIC_IPTEL_MYPHONE,      X_PANASONIC_IPTEL_NETWORKCAMERA (For KX-HDV430)</p>
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Type

### 5.3.33 Tone Settings

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#### DSS\_BUTTON\_FACILITY\_ARGx

<b>Value Format</b>	STRING
<b>Description</b>	x=1–200 Specifies an optional argument associated with the specified Facility Action for the flexible key.
<b>Value Range</b>	Max. 128 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Parameter

#### DSS\_BUTTON\_LABELx

<b>Value Format</b>	STRING
<b>Description</b>	x=1–200 Specifies the name of flexible key to be displayed on the screen.
<b>Value Range</b>	Max. 20 characters
	<b>Note</b> <ul style="list-style-type: none"><li>• You can use Unicode characters for this setting.</li></ul>
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Label Name

#### DSS\_BUTTON\_QUICK\_DIALx

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

### 5.3.33 Tone Settings

#### OUTSIDE\_DIAL\_TONE\_FRQ

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	Specifies the dual-tone frequencies, in hertz, of Second Dial Tone using max. 2 whole numbers separated by a comma.
<b>Value Range</b>	0, 200–2000 (Hz) (0=No tone)
<b>Default Value</b>	420

#### OUTSIDE\_DIAL\_TONE\_GAIN

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the gain, in decibels, of Second Dial Tone
<b>Value Range</b>	-24–24 (dB)

<b>Default Value</b>	0
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### OUTSIDE\_DIAL\_TONE\_RPT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether Second Dial Tone is repeated.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: No Repeat</li> <li>• 1: Repeat</li> </ul>
<b>Default Value</b>	0

### OUTSIDE\_DIAL\_TONE\_TIMING

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	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.
<b>Value Range</b>	0–16000 (msec) (0=Continuous)
<b>Default Value</b>	60,0

### CONFIRMATION\_TONE5\_FRQ

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

### CONFIRMATION\_TONE5\_GAIN

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

### REORDER\_TONE\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable reorder tone.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	Y

### TONE\_LEN\_DISCONNECT

<b>Value Format</b>	INTEGER
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### 5.3.33 Tone Settings

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<b>Description</b>	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.
<b>Value Range</b>	1–15 (s)
<b>Default Value</b>	3

## DIAL\_TONE1\_FRQ

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	Specifies the dual-tone frequencies, in hertz, of Dial Tone 1 using 2 whole numbers separated by a comma.
<b>Value Range</b>	0, 200–2000 (Hz) (0: No tone)
<b>Default Value</b>	350,440
<b>Web User Interface Reference</b>	Tone Frequencies

## DIAL\_TONE1\_GAIN

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the gain, in decibels, of Dial Tone 1.
<b>Value Range</b>	-24–24 (dB)
<b>Default Value</b>	0

## DIAL\_TONE1\_RPT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether Dial Tone 1 is repeated.
<b>Value Range</b>	0–1 – 0: No Repeat – 1: Repeat
<b>Default Value</b>	0

## DIAL\_TONE1\_TIMING

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	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.  <b>Note</b> <ul style="list-style-type: none"><li>It is recommended that you set a value of 60 milliseconds or more for the first value (off 1).</li></ul>
<b>Value Range</b>	0–16000 (msec) (0=Continuous)  <b>Note</b> <ul style="list-style-type: none"><li>Avoid setting 1–50 for any of the values.</li></ul>
<b>Default Value</b>	60,0
<b>Web User Interface Reference</b>	Tone Timings

**DIAL\_TONE2\_FRQ**

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	Specifies the dual-tone frequencies, in hertz, of Dial Tone 2 using 2 whole numbers separated by a comma.
<b>Value Range</b>	0, 200–2000 (Hz) (0: No tone)
<b>Default Value</b>	350,440

**DIAL\_TONE2\_GAIN**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the gain, in decibels, of Dial Tone 2.
<b>Value Range</b>	-24–24 (dB)
<b>Default Value</b>	0

**DIAL\_TONE2\_RPT**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether Dial Tone 2 is repeated.
<b>Value Range</b>	0–1 – 0: No Repeat – 1: Repeat
<b>Default Value</b>	0

**DIAL\_TONE2\_TIMING**

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	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.  <b>Note</b> <ul style="list-style-type: none"><li>• It is recommended that you set a value of 60 milliseconds or more for the first value (off 1).</li></ul>
<b>Value Range</b>	0–16000 (msec) (0:Infinite time)  <b>Note</b> <ul style="list-style-type: none"><li>• Avoid setting 1–50 for any of the values.</li></ul>
<b>Default Value</b>	60,0

**DIAL\_TONE4\_FRQ**

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	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.
<b>Value Range</b>	0, 200–2000 (Hz) (0: No tone)

### **5.3.33 Tone Settings**

<b>Default Value</b>	350,440
<b>Web User Interface Reference</b>	Tone Frequencies

## DIAL\_TONE4\_GAIN

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the gain, in decibels, of Dial Tone 4 (stutter-type dial tone).
<b>Value Range</b>	-24–24 (dB)
<b>Default Value</b>	0

## DIAL\_TONE4\_RPT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether Dial Tone 4 (stutter-type dial tone) is repeated.
<b>Value Range</b>	0–1 <ul style="list-style-type: none"><li>– 0: No Repeat</li><li>– 1: Repeat</li></ul>
<b>Default Value</b>	0

## **DIAL\_TONE4\_TIMING**

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	Specifies the pattern, in milliseconds, of Dial Tone 4 (stutter dial tones) to notify that a voice mail is waiting, using up to 22 whole numbers (off 1, on 1, off 2, on 2...) separated by commas.
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>It is recommended that you set a value of 560 milliseconds or more for the first value (off 1).</li> </ul>
<b>Value Range</b>	0–16000 (msec) (0: Continuous)
	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>Avoid setting 1–50 for any of the values.</li> </ul>
<b>Default Value</b>	560,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,100,0
<b>Web User Interface Reference</b>	Tone Timings

## **BUSY\_TONE\_FRQ**

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	Specifies the dual-tone frequencies, in hertz, of busy tones using 2 whole numbers separated by a comma.
<b>Value Range</b>	0, 200–2000 (Hz) (0: No tone)
<b>Default Value</b>	480,620
<b>Web User Interface Reference</b>	Tone Frequencies

**BUSY\_TONE\_GAIN**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the gain, in decibels, of the busy tone.
<b>Value Range</b>	-24–24 (dB)
<b>Default Value</b>	0

**BUSY\_TONE\_RPT**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether the busy tone is repeated.
<b>Value Range</b>	0–1 – 0: No Repeat – 1: Repeat
<b>Default Value</b>	1

**BUSY\_TONE\_TIMING**

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	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.  <b>Note</b> <ul style="list-style-type: none"><li>• It is recommended that you set a value of 60 milliseconds or more for the first value (off 1).</li></ul>
<b>Value Range</b>	0–16000 (msec) (0: Continuous)  <b>Note</b> <ul style="list-style-type: none"><li>• Avoid setting 1–50 for any of the values.</li></ul>
<b>Default Value</b>	60,500,440
<b>Web User Interface Reference</b>	Tone Timings

**REORDER\_TONE\_FRQ**

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	Specifies the dual-tone frequencies, in hertz, of reorder tones using 2 whole numbers separated by a comma.
<b>Value Range</b>	0, 200–2000 (Hz) (0: No tone)
<b>Default Value</b>	480,620
<b>Web User Interface Reference</b>	Tone Frequencies

**REORDER\_TONE\_GAIN**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the gain, in decibels, of the reorder tone.
<b>Value Range</b>	-24–24 (dB)

### 5.3.33 Tone Settings

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Default Value	0
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## REORDER\_TONE\_RPT

Value Format	INTEGER
Description	Specifies whether the reorder tone is repeated.
Value Range	0–1 – 0: No Repeat – 1: Repeat
Default Value	1

## REORDER\_TONE\_TIMING

Value Format	Comma-separated Integer
Description	Specifies the pattern, in milliseconds, of reorder tones using up to 10 whole numbers (off 1, on 1, off 2, on 2...) separated by commas. <b>Note</b> <ul style="list-style-type: none"><li>It is recommended that you set a value of 60 milliseconds or more for the first value (off 1).</li></ul>
Value Range	0–16000 (msec) (0: Continuous) <b>Note</b> <ul style="list-style-type: none"><li>Avoid setting 1–50 for any of the values.</li></ul>
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
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<b>Description</b>	Specifies whether the ringback tone is repeated.
<b>Value Range</b>	0–1 – 0: No Repeat – 1: Repeat
<b>Default Value</b>	1

## RINGBACK\_TONE\_TIMING

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	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.  <b>Note</b> <ul style="list-style-type: none"><li>• It is recommended that you set a value of 60 milliseconds or more for the first value (off 1).</li></ul>
<b>Value Range</b>	0–16000 (msec) (0: Continuous)  <b>Note</b> <ul style="list-style-type: none"><li>• Avoid setting 1–50 for any of the values.</li></ul>
<b>Default Value</b>	60,2000,3940
<b>Web User Interface Reference</b>	Tone Timings

## HOLD\_ALARM\_FRQ

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

## HOLD\_ALARM\_GAIN

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

## CW\_TONE1\_FRQ

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

### 5.3.33 Tone Settings

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#### CW\_TONE1\_GAIN

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the gain, in decibels, of call waiting tone 1.
<b>Value Range</b>	-24–24 (dB)
<b>Default Value</b>	0

#### HOLD\_TONE\_FRQ

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

#### HOLD\_TONE\_GAIN

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the gain, in decibels, of the hold tone.
<b>Value Range</b>	-24–24 (dB)
<b>Default Value</b>	0

#### BELL\_CORE\_PATTERN1\_TIMING

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	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.
<b>Value Range</b>	0–5000 (msec) (0: Continuous)
<b>Note</b>	<ul style="list-style-type: none"><li>Avoid setting 1–50 for any of the values.</li></ul>

#### BELL\_CORE\_PATTERN2\_TIMING

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	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.
<b>Value Range</b>	0–5000 (msec) (0: Continuous)
<b>Note</b>	<ul style="list-style-type: none"><li>Avoid setting 1–50 for any of the values.</li></ul>

**BELL\_CORE\_PATTERN3\_TIMING**

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	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.
<b>Value Range</b>	0–5000 (msec) (0: Continuous)
<b>Note</b>	<ul style="list-style-type: none"> <li>Avoid setting 1–50 for any of the values.</li> </ul>
<b>Default Value</b>	400,200,400,200,800,4000

**BELL\_CORE\_PATTERN4\_TIMING**

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	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.
<b>Value Range</b>	0–5000 (msec) (0: Continuous)
<b>Note</b>	<ul style="list-style-type: none"> <li>Avoid setting 1–50 for any of the values.</li> </ul>
<b>Default Value</b>	300,200,1000,200,300,4000

**BELL\_CORE\_PATTERN5\_TIMING**

<b>Value Format</b>	Comma-separated Integer
<b>Description</b>	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.
<b>Value Range</b>	0–5000 (msec) (0: Continuous)
<b>Note</b>	<ul style="list-style-type: none"> <li>Avoid setting 1–50 for any of the values.</li> </ul>
<b>Default Value</b>	500

**KEY\_PAD\_TONE**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies whether a tone is heard in response to key presses.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>0: Off</li> <li>1: On</li> </ul>
<b>Default Value</b>	1

## 5.3.34 Call Control Settings

### **DEFAULT\_LINE\_SELECT**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the line used to make an outgoing call when no line is specified in the dialing operation.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 1: Line 1</li> <li>• 2: Line 2</li> <li>• 3: Line 3</li> <li>• 4: Line 4</li> <li>• 5: Line 5</li> <li>• 6: Line 6</li> <li>• 7: Line 7</li> <li>• 8: Line 8</li> <li>• 9: Line 9</li> <li>• 10: Line 10</li> <li>• 11: Line 11</li> <li>• 12: Line 12</li> <li>• 13: Line 13</li> <li>• 14: Line 14</li> <li>• 15: Line 15</li> <li>• 16: Line 16</li> </ul>
	<p><b>Note</b></p> <p>KX-HDV130 Line 1-2  KX-HDV230 Line 1-6  KX-HDV330 Line 1-12  KX-HDV430 Line 1-16</p>
<b>Default Value</b>	1
<b>Web User Interface Reference</b>	Default Line for Outgoing

### **ANONYMOUS\_CALL\_ENABLE\_n**

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to make calls without transmitting the phone number to the called party.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>y</b>: Enable anonymous call</li> <li>• <b>n</b>: Disable</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable Anonymous Call

## **BLOCK\_ANONYMOUS\_CALL\_ENABLE\_n**

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to accept or reject the incoming call without the called party's phone number.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>y</b>: Enable anonymous call block</li> <li>• <b>n</b>: Disable</li> </ul>
<b>Default Value</b>	<b>n</b>
<b>Web User Interface Reference</b>	Enable Block Anonymous Call

## **HOTLINE\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the Hot line feature.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>y</b>: Enable</li> <li>• <b>n</b>: Disable</li> </ul>
<b>Default Value</b>	<b>n</b>
<b>Web User Interface Reference</b>	Enable

## **HOTLINE\_NUMBER**

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the Hot line number.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Hotline Number

## **HOTLINE\_TIM**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies a time after off hook for Hot line.
<b>Value Range</b>	0–10 (s)
<b>Default Value</b>	2
<b>Web User Interface Reference</b>	Hotline Delay

## **DISPLAY\_NAME\_n**

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the name to display as the caller on the other party's phone when you make a call.

### 5.3.34 Call Control Settings

<b>Value Range</b>	Max. 24 characters
<b>Note</b>	<ul style="list-style-type: none"><li>You can use Unicode characters for this setting.</li></ul>
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Display Name

## VM\_SUBSCRIBE\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to send the SUBSCRIBE request to a voice mail server.
<b>Note</b>	<ul style="list-style-type: none"><li>Your phone system must support voice mail.</li></ul>
<b>Value Range</b>	<ul style="list-style-type: none"><li><b>Y:</b> Send the SUBSCRIBE request</li><li><b>N:</b> Do not send the SUBSCRIBE request</li></ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Send SUBSCRIBE to Voice Mail Server

## VM\_NUMBER\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the phone number used to access the voice mail server.
<b>Note</b>	<ul style="list-style-type: none"><li>Your phone system must support voice mail.</li></ul>
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Voice Mail Access Number

## VM\_SUBSCRIBE\_SPECIFIC\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the defined name of a voice mail box.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string

## DISPLAY\_VM\_WITH\_NUMBER

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

<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable</li> <li><b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

## DIAL\_PLAN\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	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.
<b>Value Range</b>	Max. 1000 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	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	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	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".
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable dial plan filtering</li> <li><b>N:</b> Disable dial plan filtering</li> </ul>
<b>Note</b>	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Call Even If Dial Plan Does Not Match

## DIALPLAN\_REPLACE\_LOG\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to log the number after it was modified by the Dial Plan or the number as it was input.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Log the number in the outgoing call log after it was modified by the Dial Plan</li> <li><b>N:</b> Log the number in the outgoing call log as it was input</li> </ul>
<b>Default Value</b>	<b>Y</b>

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#### DIALPLAN\_MEMORY\_DIAL\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable Dial Plan processing for memory dialing.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> Enable Dial Plan</li><li>• <b>N:</b> Disable</li></ul>
<b>Default Value</b>	<b>Y</b>

#### MACRODIGIT\_TIM

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the length of time, in seconds, that the unit waits when a "T" or "t" has been entered in the dial plan.
<b>Value Range</b>	1–15
<b>Default Value</b>	5
<b>Web User Interface Reference</b>	Timer for Dial Plan

#### INTERNATIONAL\_ACCESS\_CODE

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the number to be shown in the place of the first "+" symbol when the phone number for incoming international calls contains "+".
<b>Value Range</b>	Max. 8 characters (consisting of 0–9, *, and #)
	<b>Note</b> <ul style="list-style-type: none"><li>• No other characters are allowed.</li></ul>
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	International Call Prefix

#### COUNTRY\_CALLING\_CODE

<b>Value Format</b>	STRING
<b>Description</b>	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.
<b>Value Range</b>	Max. 8 characters (consisting of 0–9)
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Country Calling Code

#### NATIONAL\_ACCESS\_CODE

<b>Value Format</b>	STRING
<b>Description</b>	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.
<b>Value Range</b>	Max. 8 characters (consisting of 0–9, *, and #)

<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	National Access Code

### IDLE\_SOFT\_KEY\_A (For KX-HDV130/KX-HDV230)

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the Soft Key A (Left) during IDLE state.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 1: Phonebook</li> <li>• 2: Menu</li> <li>• 3: Outgoing Call Log</li> <li>• 4: Incoming Call Log</li> <li>• 5: Redial</li> <li>• 6: Page (Used when performing Multicast Paging)</li> </ul>
	<p><b>Note</b></p> <p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> <li>– Page: MPAGE_FUNCKEY_ENABLE</li> </ul>
<b>Default Value</b>	1
<b>Web User Interface Reference</b>	Soft Key A (Left)

### IDLE\_SOFT\_KEY\_B (For KX-HDV130/KX-HDV230)

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the Soft Key B (Center) during IDLE state.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 1: Phonebook</li> <li>• 2: Menu</li> <li>• 3: Outgoing Call Log</li> <li>• 4: Incoming Call Log</li> <li>• 5: Redial</li> <li>• 6: Page (Used when performing Multicast Paging)</li> </ul>
	<p><b>Note</b></p> <p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> <li>– Page: MPAGE_FUNCKEY_ENABLE</li> </ul>
<b>Default Value</b>	2
<b>Web User Interface Reference</b>	Soft Key B (Center)

### IDLE\_SOFT\_KEY\_C (For KX-HDV130/KX-HDV230)

<b>Value Format</b>	INTEGER
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### 5.3.34 Call Control Settings

<b>Description</b>	Specifies the Soft Key C (Right) during IDLE state.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 1: Phonebook</li> <li>• 2: Menu</li> <li>• 3: Outgoing Call Log</li> <li>• 4: Incoming Call Log</li> <li>• 5: Redial</li> <li>• 6: Page (Used when performing Multicast Paging)</li> </ul>
	<p><b>Note</b></p> <p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> <li>– Page: MPAGE_FUNCKEY_ENABLE</li> </ul>
<b>Default Value</b>	3
<b>Web User Interface Reference</b>	Soft Key C (Right)

## ADMIN\_ABILITY\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies admin rights.
	<p><b>Note</b></p> <p>If you attempt to configure System Settings without enabling admin rights, an error will occur and configuration will not be possible.</p>
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Admin</li> <li>• <b>N:</b> Non Admin</li> </ul>
<b>Default Value</b>	Y
<b>Web User Interface Reference</b>	Enable Admin Ability

## EMERGENCY\_CALLx

<b>Parameter Name Example</b>	<code>EMERGENCY_CALL1, EMERGENCY_CALL2, ..., EMERGENCY_CALL5</code>
<b>Value Format</b>	STRING
<b>Description</b>	Specifies the emergency number. (Up to 5 emergency numbers)
<b>Value Range</b>	Max. 32 characters (except &, ', :, ;, <, >)
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	1–5

## CALL\_REJECTIONx

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

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

### [CLICKTO\\_ENABLE\\_n](#)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable Click to Dial/Answer/Hold functions.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable Click to Call

### [SIGNALING\\_AUTO\\_ANS\\_ENABLE\\_n](#)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable paging mode with "Click to Dial".
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

### [CALLPARK\\_NOTIFICATION\\_ENABLE\\_n](#)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to respond to call park notifications from the server.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y:</b> Enable</li> <li>• <b>N:</b> Disable</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable Call Park Notification

### [SHARED\\_CALL\\_ENABLE\\_n](#)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	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.

### 5.3.34 Call Control Settings

<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable shared call</li> <li><b>N:</b> Disable shared call</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>If set to "Y", the SIP server will control the line by using a shared-call signaling method.</li> <li>If set to "N", the SIP server will control the line by using a standard signaling method.</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable Shared Call

## SHARED\_STOP\_LINE\_SEIZE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to stop seizing the Shared Call line at the unit side.
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Stop seizing the line</li> <li><b>N:</b> Seize the line</li> </ul>
<b>Default Value</b>	<b>N</b>

## FWD\_DND\_SYNCHRO\_ENABLE\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	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.
<b>Note</b>	<ul style="list-style-type: none"> <li>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.</li> </ul>
<b>Value Range</b>	<ul style="list-style-type: none"> <li><b>Y:</b> Enable Do Not Disturb/Call Forward synchronization</li> <li><b>N:</b> Disable Do Not Disturb/Call Forward synchronization</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	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	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to synchronize the Call Forward settings in "FWD_DND_SYNCHRO_ENABLE_n".

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Do not synchronize</li> <li>• <b>N</b>: Synchronize</li> </ul>
<b>Default Value</b>	<b>N</b>

### BS\_EXECUTIVE\_SETTING\_ENABLE\_n (For KX-HDV330/KX-HDV430)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the Executive Call Filtering feature of the selected line.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Enable</li> <li>• <b>N</b>: Disable</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable Executive Setting (For KX-HDV330/KX-HDV430)

### BS\_ASSISTANT\_SETTING\_ENABLE\_n (For KX-HDV330/KX-HDV430)

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable the Executive Call Filtering feature and Executive-Assistant Divert feature of the selected line.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b> : Enable</li> <li>• <b>N</b> : Disable</li> </ul>
<b>Default Value</b>	<b>N</b>
<b>Web User Interface Reference</b>	Enable Assistant Setting (For KX-HDV330/KX-HDV430)

### MOH\_SERVER\_URI\_n

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	STRING
<b>Description</b>	Specifies MoH server URI for each line.
<b>Value Range</b>	Max. 384 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	MoH Server URI

### FWD\_DND\_CONTROL\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the telephone for FWD/DND.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Enable</li> <li>• <b>N</b>: Disable</li> </ul>
<b>Default Value</b>	<b>Y</b>

### 5.3.34 Call Control Settings

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#### FWD\_DND\_SYNCHRO\_MODE

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the mode of FWD/DND synchronizing with server.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 1: as feature event</li><li>• 2: Panasonic original</li><li>• 3: Entel</li></ul>
<b>Default Value</b>	1

#### FWD\_DND\_MISSEDLOG\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the unit to save forwarded calls and rejected calls on a Missed Call log when "FWD/DND" feature is activated.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable</li><li>• <b>N</b>: Disable</li></ul>
<b>Default Value</b>	<b>Y</b>

#### HOLD\_AND\_CALL\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether making new call after holding the call or not.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable (Hold and Call)</li><li>• <b>N</b>: Disable (Hold)</li></ul>
<b>Default Value</b>	<b>N</b>

#### AUTO\_CALL\_HOLD

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether calls are disconnected or held when another line is selected while having a conversation.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y</b>: Enable Auto Call Hold</li><li>• <b>N</b>: Disable Auto Call Hold</li></ul>
<b>Default Value</b>	<b>Y</b>

#### SIP\_RESPONSE\_CODE\_DND

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the response code when a call is received in Do Not Disturb mode.
<b>Value Range</b>	400–699
<b>Default Value</b>	403

**SIP\_RESPONSE\_CODE\_CALL\_REJECT**

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the response code when a call is rejected.
<b>Value Range</b>	400–699
<b>Default Value</b>	603

**CW\_ENABLE\_n**

For details about parameter names end with "_n", see 5.2.1 Configuration File Parameters	
<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether automatic call waiting is enabled.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Enable Call Waiting</li> <li>• <b>N</b>: Disable Call Waiting</li> </ul>
<b>Default Value</b>	<b>Y</b>
<b>Web User Interface Reference</b>	Enable Call Waiting

**RETURN\_VOL\_SET\_DEFAULT\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether the volume is returned to its default setting after each call.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>Y</b>: Volume returns to the default setting after each call</li> <li>• <b>N</b>: Volume does not change after each call</li> </ul>
<b>Default Value</b>	<b>N</b>

**CONFERENCE\_SERVER\_URI**

<b>Value Format</b>	STRING
<b>Description</b>	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".
<b>Note</b>	<ul style="list-style-type: none"> <li>• Availability depends on your phone system.</li> </ul>
<b>Value Range</b>	Max. 256 characters (except ", &, :, ;, <, >, and space)
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Conference Server URI

**CONF\_SERVER\_HOLD\_ENABLE**

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

### 5.3.34 Call Control Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li><b>x</b>: Hold the call</li><li><b>n</b>: Do not hold the call</li></ul>
<b>Default Value</b>	<b>N</b>

## RESOURCELIST\_URI\_n

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

## TALKING\_SOFT\_KEY\_A (For KX-HDV130/KX-HDV230)

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the display icon of soft key A during a call.
<b>Value Range</b>	<ul style="list-style-type: none"><li>0: Original</li><li>1: Line</li><li>2: Menu</li><li>3: Blind (Used when performing Blind Transfer)</li><li>4: Flash/Recall</li><li>5: Incoming Log</li><li>6: Outgoing Log</li><li>7: Phonebook</li><li>8: Park (Used when performing Call Park)</li><li>9: Pause</li><li>10: Private Hold</li></ul>
<b>Note</b>	The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting. <ul style="list-style-type: none"><li>– Blind: BLIND_TRANSFER_ENABLE</li><li>– Park: CALLPARK_KEY_ENABLE</li><li>– Pause: PAUSE_INPUT_ENABLE</li><li>– Private Hold: PRIVATE_HOLD_ENABLE</li></ul>
<b>Default Value</b>	0

## TALKING\_SOFT\_KEY\_B (For KX-HDV130/KX-HDV230)

<b>Value Format</b>	INTEGER
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<b>Description</b>	Specifies the display icon of soft key B during a call.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Original</li> <li>• 1: Line</li> <li>• 2: Menu</li> <li>• 3: Blind (Used when performing Blind Transfer)</li> <li>• 4: Flash/Recall</li> <li>• 5: Incoming Log</li> <li>• 6: Outgoing Log</li> <li>• 7: Phonebook</li> <li>• 8: Park (Used when performing Call Park)</li> <li>• 9: Pause</li> <li>• 10: Private Hold</li> </ul>
<b>Note</b>	<p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"> <li>– Blind: BLIND_TRANSFER_ENABLE</li> <li>– Park: CALLPARK_KEY_ENABLE</li> <li>– Pause: PAUSE_INPUT_ENABLE</li> <li>– Private Hold: PRIVATE_HOLD_ENABLE</li> </ul>
<b>Default Value</b>	0

### TALKING\_SOFT\_KEY\_C (For KX-HDV130/KX-HDV230)

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

### 5.3.34 Call Control Settings

<b>Value Range</b>	<ul style="list-style-type: none"><li>• 0: Original</li><li>• 1: Line</li><li>• 2: Menu</li><li>• 3: Blind (Used when performing Blind Transfer)</li><li>• 4: Flash/Recall</li><li>• 5: Incoming Log</li><li>• 6: Outgoing Log</li><li>• 7: Phonebook</li><li>• 8: Park (Used when performing Call Park)</li><li>• 9: Pause</li><li>• 10: Private Hold</li></ul>
<b>Note</b>	<p>The following features are applied to the soft key only when the corresponding parameters are enabled. Otherwise, the soft key will remain in its original setting.</p> <ul style="list-style-type: none"><li>– Blind: BLIND_TRANSFER_ENABLE</li><li>– Park: CALLPARK_KEY_ENABLE</li><li>– Pause: PAUSE_INPUT_ENABLE</li><li>– Private Hold: PRIVATE_HOLD_ENABLE</li></ul>
<b>Default Value</b>	0

## AUTO\_ANS\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to turn on the "Auto Answer" feature.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> On</li><li>• <b>N:</b> Off</li></ul>
<b>Default Value</b>	<b>N</b>

## AUTO\_ANS\_OPER\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable users to turn "Auto Answer" on and off from their phones.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>Y:</b> Enable</li><li>• <b>N:</b> Disable</li></ul>
<b>Default Value</b>	<b>Y</b>

## AUTO\_ANS\_DEVICE

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

### AUTO\_ANS\_DELAY

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

### AUTO\_ANS\_TYPE (For KX-HDV430)

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

### RETRIVE\_TRANS\_HOLD\_OPER\_CHANGE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies the action for retrieving transfer-hold calls by pressing a Line key.  <b>Note</b> <ul style="list-style-type: none"><li>• The action for retrieving conference call on hold by pressing a Line key in the conference call sequence also follows this setting.</li></ul>
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>y</b>: Disconnect the current call</li><li>• <b>n</b>: Follow the "AUTO_CALL_HOLD" setting</li></ul>
<b>Default Value</b>	<b>n</b>

### REMOVE\_PREFIX\_ENABLE

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable omitting "+" included in overseas telephone numbers when making or receiving a call.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• <b>y</b>: Enable</li><li>• <b>n</b>: Disable</li></ul>

### 5.3.35 Video Communication Settings (For KX-HDV430)

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Default Value	N
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## 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	<ul style="list-style-type: none"><li>• 0: Voice</li><li>• 1: Video</li></ul>
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	<ul style="list-style-type: none"><li>• 0: Normal</li><li>• 1: Split</li></ul>
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	<ul style="list-style-type: none"><li>• Y: Enable</li><li>• N: Disable</li></ul>
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.

<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: 128 kbps</li> <li>• 1: 256 kbps</li> <li>• 2: 384 kbps</li> <li>• 3: 512 kbps</li> <li>• 4: 768 kbps</li> <li>• 5: 1024 kbps</li> <li>• 6: 2048 kbps</li> </ul>
<b>Default Value</b>	6
<b>Web User Interface Reference</b>	Bit Rate

## VIDEO\_BIT\_RATE\_USE

<b>Value Format</b>	INTEGER
<b>Description</b>	Selects whether the specified bit rate is treated as the maximum bit rate or a fixed bit rate.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: Maximum</li> <li>• 1: Fixed</li> </ul>
<b>Default Value</b>	0
<b>Web User Interface Reference</b>	Bit Rate Use

## VIDEO\_FRAME\_RATE

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the frame rate for the video when you make a video call.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 15: 15 fps</li> <li>• 30: 30 fps</li> </ul>
<b>Default Value</b>	30
<b>Web User Interface Reference</b>	Frame Rate

## VIDEO\_IMAGE\_SIZE

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the size for video images when you make a video call.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• 0: QCIF</li> <li>• 1: QVGA</li> <li>• 2: CIF</li> <li>• 3: HVGA</li> <li>• 4: VGA</li> </ul>
<b>Default Value</b>	3
<b>Web User Interface Reference</b>	Image Size

### 5.3.36 Network Camera Settings (For KX-HDV430)

#### H264\_PAYLOAD

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

### 5.3.36 Network Camera Settings (For KX-HDV430)

#### NWCAMERA\_DISPLAY\_NAMEx

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

#### NWCAMERA\_ADDRx

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

#### NWCAMERA\_PORTx

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

#### NWCAMERA\_USER\_IDx

<b>Parameter Name Example</b>	NWCAMERA_USER_ID1, NWCAMERA_USER_ID2, ..., NWCAMERA_USER_ID16
<b>Value Format</b>	STRING

<b>Description</b>	x=1–16 Specifies the user ID to connect to the Network Camera.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string

### NWCAMERA\_PASSx

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

### NWCAMERA\_PAGING\_PHONE\_NAMEx

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

### NWCAMERA\_PAGING\_PHONE\_NUMBERx

<b>Parameter Name Example</b>	NWCAMERA_PAGING_PHONE_NUMBER1, NWCAMERA_PAGING_PHONE_NUMBER2, ..., NWCAMERA_PAGING_PHONE_NUMBER16
<b>Value Format</b>	STRING
<b>Description</b>	x=1–16 Specifies the phone number to use for Network Camera paging.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string

### NWCAMERA\_LINK\_PHONEm\_NAMEx

<b>Parameter Name Example</b>	NWCAMERA_LINK_PHONE1_NAME1, NWCAMERA_LINK_PHONE1_NAME2, ..., NWCAMERA_LINK_PHONE5_NAME16
<b>Value Format</b>	STRING
<b>Description</b>	m=1–5, x=1–16 Specifies the phone name to use for Network Camera phone number linkage.

### 5.3.36 Network Camera Settings (For KX-HDV430)

<b>Value Range</b>	Max. 24 characters
<b>Default Value</b>	Empty string

#### NWCAMERA\_LINK\_PHONEm\_NUMBERx

<b>Parameter Name Example</b>	NWCAMERA_LINK_PHONE1_NUMBER1, NWCAMERA_LINK_PHONE1_NUMBER2, ..., NWCAMERA_LINK_PHONE5_NUMBER16
<b>Value Format</b>	STRING
<b>Description</b>	m=1–5, x=1–16 Specifies the phone number to use for Network Camera phone number linkage.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string

#### NWCAMERA\_STREAMx

<b>Parameter Name Example</b>	NWCAMERA_STREAM1, NWCAMERA_STREAM2, ..., NWCAMERA_STREAM16
<b>Value Format</b>	INTEGER
<b>Description</b>	x=1–16 Specifies the stream of the Network Camera image.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 1: Stream 1</li><li>• 2: Stream 2</li></ul>
<b>Default Value</b>	1

#### NWCAMERA\_ALARM\_NOTIFICATION

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the mode for Network Camera alarm notifications.
<b>Value Range</b>	<ul style="list-style-type: none"><li>• 0: Off</li><li>• 1: Pop-up</li></ul>
<b>Default Value</b>	0

#### NWCAMERA\_ALARM\_DISARM\_TIME

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the time, in seconds, for the alarm interval.
<b>Value Range</b>	2–10 (s)
<b>Default Value</b>	2

#### NWCAMERA\_ALARM\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the local port number for Network Camera alarms.

<b>Value Range</b>	1024–65535
<b>Default Value</b>	1818

**NWCAMERA\_AUTO\_CLOSE\_ENABLE**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to disconnect the network camera when the call is ended.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>y</b>: Disconnect</li> <li>• <b>n</b>: Do not disconnect</li> </ul>
<b>Default Value</b>	<b>n</b>

**NWCAMERA\_OPEN\_RECEIVE\_CALL**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to connect the network camera when the call associated with network camera is incoming.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>y</b>: Connect</li> <li>• <b>n</b>: Do not connect</li> </ul>
<b>Default Value</b>	<b>n</b>

**5.3.37 Communication Camera Settings (For KX-HDV430)****COMM\_CAMERA\_NUMBERx**

<b>Parameter Name Example</b>	COMM_CAMERA_NUMBER1, COMM_CAMERA_NUMBER2, ..., COMM_CAMERA_NUMBER16
<b>Value Format</b>	STRING
<b>Description</b>	x=1–16 Specifies the phone number of each Communication Camera.
<b>Value Range</b>	Max. 32 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Phone Number

**COMM\_CAMERA\_NAMEx**

<b>Parameter Name Example</b>	COMM_CAMERA_NAME1, COMM_CAMERA_NAME2, ..., COMM_CAMERA_NAME16
<b>Value Format</b>	STRING
<b>Description</b>	x=1–16 Specifies the name of each Communication Camera.
<b>Value Range</b>	Max. 24 characters
<b>Default Value</b>	Empty string
<b>Web User Interface Reference</b>	Name

**COMM\_CAMERA\_RINGTONE\_SETTINGx**

<b>Parameter Name Example</b>	COMM_CAMERA_RINGTONE_SETTING1, COMM_CAMERA_RINGTONE_SETTING2, ..., COMM_CAMERA_RINGTONE_SETTING16
<b>Value Format</b>	INTEGER
<b>Description</b>	x=1–16 Specifies the ringtone of each Communication Camera.
<b>Value Range</b>	1–32 (10: doorbell)
<b>Default Value</b>	10
<b>Web User Interface Reference</b>	Ringtone [ 1 - 32 ]

**DTMF\_CONTROL\_UP\_CAMERAx**

<b>Parameter Name Example</b>	DTMF_CONTROL_UP_CAMERA1, DTMF_CONTROL_UP_CAMERA2, ..., DTMF_CONTROL_UP_CAMERA16
<b>Value Format</b>	STRING
<b>Description</b>	x=1–16 Specifies the DTMF value for tilting the camera up for each Communication Camera.
<b>Value Range</b>	Max. 8 digits (0–9, *, #)
<b>Default Value</b>	2

**DTMF\_CONTROL\_DOWN\_CAMERAx**

<b>Parameter Name Example</b>	DTMF_CONTROL_DOWN_CAMERA1, DTMF_CONTROL_DOWN_CAMERA2, ..., DTMF_CONTROL_DOWN_CAMERA16
<b>Value Format</b>	STRING
<b>Description</b>	x=1–16 Specifies the DTMF value for tilting the camera down for each Communication Camera.
<b>Value Range</b>	Max. 8 digits (0–9, *, #)
<b>Default Value</b>	8

**DTMF\_CONTROL\_LEFT\_CAMERAx**

<b>Parameter Name Example</b>	DTMF_CONTROL_LEFT_CAMERA1, DTMF_CONTROL_LEFT_CAMERA2, ..., DTMF_CONTROL_LEFT_CAMERA16
<b>Value Format</b>	STRING
<b>Description</b>	x=1–16 Specifies the DTMF value for panning the camera left for each Communication Camera.
<b>Value Range</b>	Max. 8 digits (0–9, *, #)
<b>Default Value</b>	4

## **DTMF\_CONTROL\_RIGHT\_CAMERAx**

<b>Parameter Name Example</b>	DTMF_CONTROL_RIGHT_CAMERA1, DTMF_CONTROL_RIGHT_CAMERA2, ..., DTMF_CONTROL_RIGHT_CAMERA16
<b>Value Format</b>	STRING
<b>Description</b>	x=1–16 Specifies the DTMF value for panning the camera right for each Communication Camera.
<b>Value Range</b>	Max. 8 digits (0–9, *, #)
<b>Default Value</b>	6

## **DTMF\_CONTROL\_OPEN\_CAMERAx**

<b>Parameter Name Example</b>	DTMF_CONTROL_OPEN_CAMERA1, DTMF_CONTROL_OPEN_CAMERA2, ..., DTMF_CONTROL_OPEN_CAMERA16
<b>Value Format</b>	STRING
<b>Description</b>	x=1–16 Specifies the DTMF value for opening the door near the camera for each Communication Camera.
<b>Value Range</b>	Max. 8 digits (0–9, *, #)
<b>Default Value</b>	5

## **DTMF\_CONTROL\_ZOOMUP\_CAMERAx**

<b>Parameter Name Example</b>	DTMF_CONTROL_ZOOMUP_CAMERA1, DTMF_CONTROL_ZOOMUP_CAMERA2, ..., DTMF_CONTROL_ZOOMUP_CAMERA16
<b>Value Format</b>	STRING
<b>Description</b>	x=1–16 Specifies the DTMF value for zooming in for each Communication Camera.
<b>Value Range</b>	Max. 8 digits (0–9, *, #)
<b>Default Value</b>	9

## **DTMF\_CONTROL\_ZOOMDOWN\_CAMERAx**

<b>Parameter Name Example</b>	DTMF_CONTROL_ZOOMDOWN_CAMERA1, DTMF_CONTROL_ZOOMDOWN_CAMERA2, ..., DTMF_CONTROL_ZOOMDOWN_CAMERA16
<b>Value Format</b>	STRING
<b>Description</b>	x=1–16 Specifies the DTMF value for zooming out for each Communication Camera.
<b>Value Range</b>	Max. 8 digits (0–9, *, #)
<b>Default Value</b>	7

### 5.3.38 Logging Settings

#### DTMF\_CONTROL\_VOICE\_CAMERAAx

<b>Parameter Name Example</b>	DTMF_CONTROL_VOICE_CAMERA1, DTMF_CONTROL_VOICE_CAMERA2, ..., DTMF_CONTROL_VOICE_CAMERA16
<b>Value Format</b>	STRING
<b>Description</b>	x=1–16 Specifies the DTMF value for talking with the camera for each Communication Camera.
<b>Value Range</b>	Max. 8 digits (0–9, *, #)
<b>Default Value</b>	*

### 5.3.38 Logging Settings

#### SYSLOG\_ADDR

<b>Value Format</b>	STRING
<b>Description</b>	Specifies the IP address or FQDN of Syslog server.
<b>Value Range</b>	Max. 256 characters
<b>Default Value</b>	Empty string

#### SYSLOG\_PORT

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port of Syslog server.
<b>Value Range</b>	1–65535
<b>Default Value</b>	514

#### LOGGING\_LEVEL\_DNS

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the log level of DNS.
<b>Value Range</b>	0–6
<b>Default Value</b>	0

#### LOGGING\_LEVEL\_NW1

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the log level of SNTP.
<b>Value Range</b>	0–6
<b>Default Value</b>	0

#### LOGGING\_LEVEL\_FILE

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the log level of FILE downloading.

<b>Value Range</b>	0–6
<b>Default Value</b>	6

### LOGGING\_LEVEL\_SIP

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the log level of SIP.
<b>Value Range</b>	0–6
<b>Default Value</b>	0

### LOGGING\_LEVEL\_TR069

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the log level of TR-069.
<b>Value Range</b>	0–6
<b>Default Value</b>	0

### LOGGING\_LEVEL\_STUN

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the log level of STUN.
<b>Value Range</b>	0–6
<b>Default Value</b>	0

### LOGGING\_LEVEL\_NW2

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the log level of Xsi, XML, XMPP, LDAP.
<b>Value Range</b>	0–6
<b>Default Value</b>	0

### LOGGING\_LEVEL\_CFGPARSE

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the log level of configuration parse.
<b>Value Range</b>	0–6
<b>Default Value</b>	0

### SYSLOG\_OUT\_START

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable or disable exporting of the Application Log.
<b>Value Range</b>	<ul style="list-style-type: none"> <li>• <b>y</b>: Enable export to syslog</li> <li>• <b>n</b>: Disable</li> </ul>

### 5.3.39 TWAMP Settings

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Default Value	N
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## 5.3.39 TWAMP Settings

### [TWAMP\\_ENABLE](#)

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies whether to enable the TWAMP server function.
<b>Value Range</b>	Y: Enable the TWAMP server function. N: Disable
<b>Default Value</b>	N
<b>Web User Interface Reference</b>	Enable TWAMP

### [TWAMP\\_CONTROL\\_PORT](#)

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port for the TWAMP control session.
<b>Value Range</b>	1-65535
<b>Default Value</b>	862
<b>Web User Interface Reference</b>	Control Port

### [TWAMP\\_TEST\\_PORT](#)

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the port for the TWAMP test session.
<b>Value Range</b>	1-65535
<b>Default Value</b>	9000
<b>Web User Interface Reference</b>	Test Port

### [TWAMP\\_SERVER\\_WAIT\\_TIME](#)

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the time, in seconds, for the TWAMP server to wait for incoming packets for maintaining the session.
<b>Value Range</b>	1-65535
<b>Default Value</b>	900
<b>Web User Interface Reference</b>	Wait Time for Control

### [TWAMP\\_REFLECTOR\\_WAIT\\_TIME](#)

<b>Value Format</b>	INTEGER
<b>Description</b>	Specifies the time, in seconds, for the TWAMP reflector to wait for incoming packets for maintaining the session.
<b>Value Range</b>	1-65535
<b>Default Value</b>	900

Web User Interface Reference	Wait Time for Reflector
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## **TWAMP\_PADDING\_ZERO**

<b>Value Format</b>	BOOLEAN
<b>Description</b>	Specifies the packet padding for the TWAMP test session.
<b>Value Range</b>	<b>Y:</b> All zeros <b>N:</b> Random
<b>Default Value</b>	<b>N</b>

### **5.3.39 TWAMP Settings**

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## **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

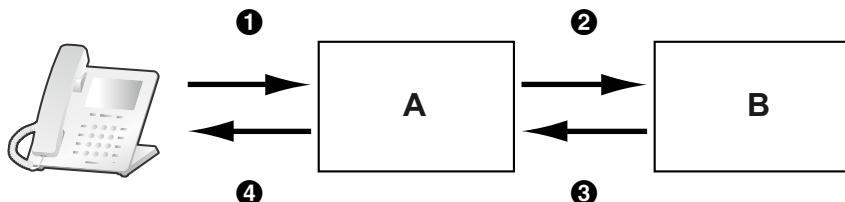
### Note

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.

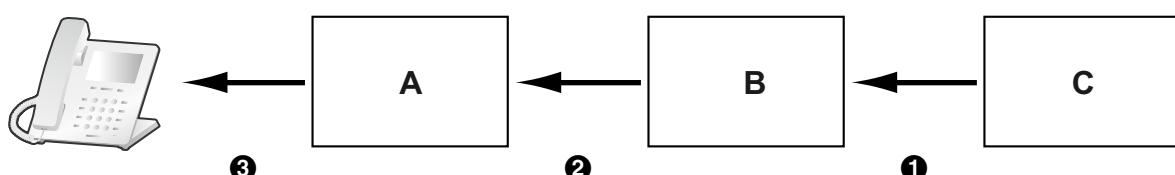


### Importing Address Book Data from a PC

You can import address book data stored in programs, such as Microsoft Outlook® messaging and collaboration client, into the unit.

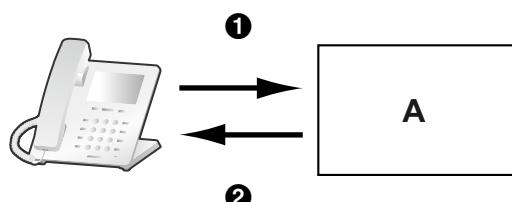
First, export address book data from the e-mail software to a program such as Microsoft Excel, edit it as necessary, and then import the exported data into the unit.

For details about the operation, see [6.1.3 Exporting Data from Microsoft Outlook](#).



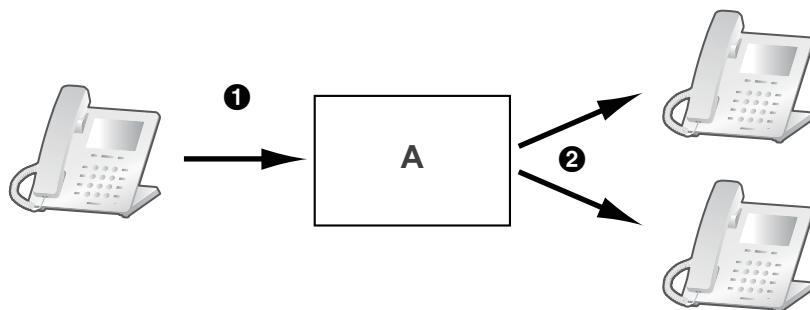
### Backing up Phonebook Data

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.

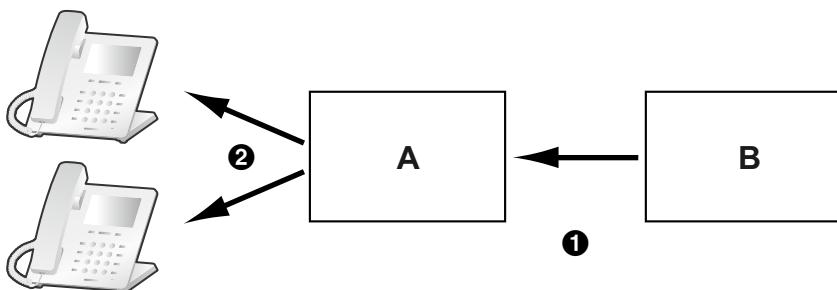


## Importing the Same Phonebook Data to other Units

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> 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.

## 6.1.1 Import/Export Operation

### Phonebook Data in Text Format

①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰
1		Aaron MacDowell			501		1234001									
2		Barbara Nicolls			502		1234002									
3		Carl O'Brien			503		1234003									
4		Dorothy Parker					1234004									
.....		....			....		....			....		....		....		....
....		....			....		....			....		....		....		....

- ① Record ID (Unique ID: 1–500)
- ② Tab
- ③ Name (up to 24 characters)
- ④ Tab
- ⑤ Reserved (up to 24 characters)
- ⑥ Tab
- ⑦ Phone number (up to 32 digits)
- ⑧ Tab
- ⑨ Phone number (up to 32 digits)
- ⑩ Tab
- ⑪ Phone number (up to 32 digits)
- ⑫ Tab
- ⑬ Phone number (up to 32 digits)
- ⑭ Tab
- ⑮ Phone number (up to 32 digits)
- ⑯ Tab
- ⑰ Reserved

## 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

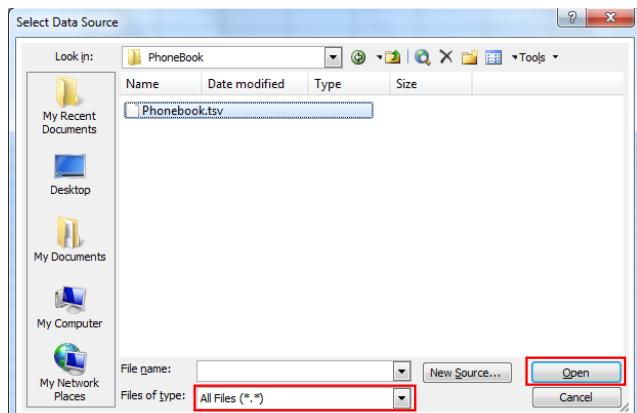
1. Open Microsoft Excel.
2. Click **Office Button**, and then **Open**.

### Note

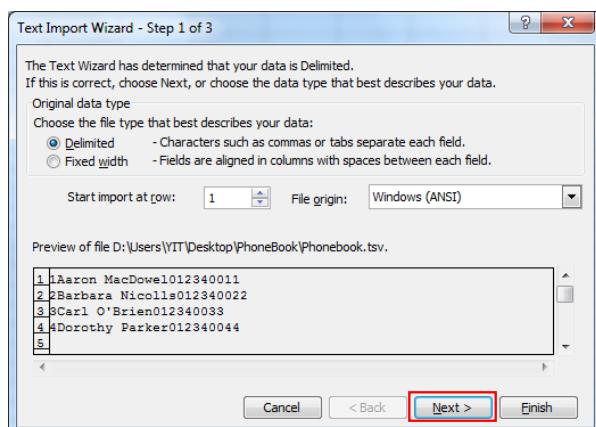
- Make sure to open a TSV file in this procedure. If you change the extension of a TSV file to ".csv", the file will open by simply double-clicking it. However, the character encoding of the file might not be recognized properly, resulting in garbled characters, or the phone numbers might be recognized 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**.



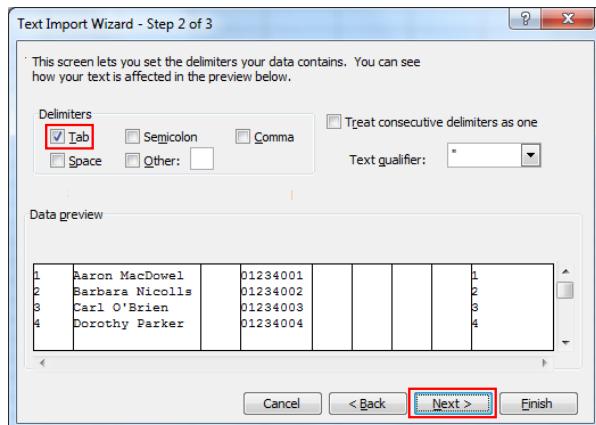
4. On the **Text Import Wizard - Step 1 of 3** window, click **Next**.



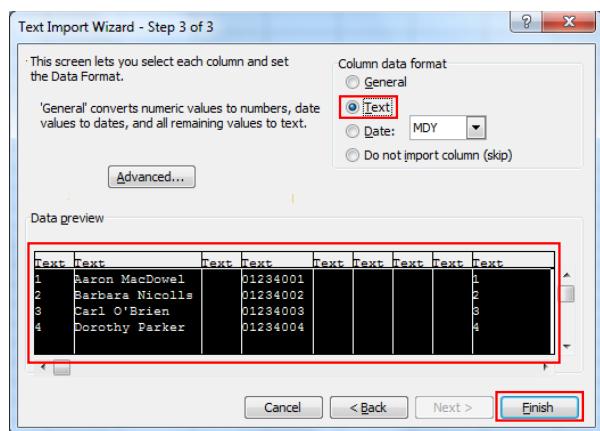
### Note

- 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**.



6. 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

1. After editing the phonebook entries, click **Office Button**, and then **Save As**. Assign record IDs manually before saving.
2. 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.
3. Click **Save**. A message warning you about file compatibility will be displayed.
4. 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

1. In Microsoft Outlook, click **File**, and then click **Import and Export**.
2. Select **Export to a file**, and click **Next**.
3. Select **Tab Separated Values (Windows)**, and click **Next**.
4. Select **Contacts**, and click **Next**.
5. Click **Browse**, select a folder, and then enter the file name to export the data to.
6. Click **OK**.

7. On the **Export to a File** window, click **Next**.
8. Click **Map Custom Fields**.
9. Clear all items in the **To** list by clicking **Clear Map**. Then, drag only **Last Name** and **Business Phone** from the **From** list to the **To** list, and click **OK**.
10. On the **Export to a File** window, click **Finish**.  
The data will be exported.

### Note

- The procedure may vary depending on the software version of Microsoft Outlook.
- You can export data from Microsoft Outlook Express by using a similar procedure. It is also possible to export data from other applications that are compatible with Microsoft Excel.
- You can open the exported file in Microsoft Excel, and then import it to the 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, *, #, +	<b>Example:</b> "123" If the dialed phone number is "123", the call is made immediately.
Wildcard	X, x	<b>Example:</b> "12xxxxx" If the dialed phone number is "12" followed by any 5-digit number, the call is made immediately.
Range	[]	<b>Example:</b> "[123]" If the dialed phone number is either one of "1", "2", or "3", the call is made immediately.
Subrange	-	<b>Example:</b> "[1-5]" If the dialed phone number is "1", "2", "3", "4", or "5", the call is made immediately. <ul style="list-style-type: none"> <li>• A subrange is only valid for single-digit numbers. For example, "[4-9]" is valid, but "[12-21]" is invalid.</li> </ul>
Repeat	.	<b>Example:</b> "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)>	<b>Example:</b> "<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)	<b>Example:</b> "1x.S2" If the dialed phone number begins with "1", the call is made after a lapse of 2 seconds. <ul style="list-style-type: none"> <li>• The number (0–9) followed by "S" or "s" shows the duration in seconds until the call is made.</li> </ul>
Macro Timer	T, t	<b>Example:</b> "1x.T" If the dialed phone number begins with "1", the call is made after a lapse of "T" seconds. <ul style="list-style-type: none"> <li>• The value of "T" or "t" can be configured through the Web user interface (→ see <b>[Timer for Dial Plan]</b> in <b>4.6.1.1 Call Control</b>).</li> </ul>
Reject	!	<b>Example:</b> "123xxx!" If the dialed phone number is "123" followed by 3 digits, the call is not made.
Alternation		<b>Example:</b> "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	,	<b>Example:</b> "9,xxxxxxxxxx.T" If 9 is dialed, the second dial tone is heard, and then 11 digits are dialed, the call is made after waiting "T" seconds. * The dialing will include the initially dialed "9".

### Note

- You can enter up to 1000 characters in [Dial Plan].
- You can assign up to 100 dial plans separated by "|" in [Dial Plan].
- You can assign up to 32 digits per dial plan in [Dial Plan].
- You can assign up to 10 substitutions in [Dial Plan].
- After the user completes dialing, the 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-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-HDV430) and 4.6.10 DSS Console (For KX-HDV230/KX-HDV330/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-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)	<p>Used to show the current status of another extension, call the extension and transfer calls to it.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>It may be necessary to specify the Resource List URI to use this feature, depending on your phone system (→ see [Resource List URI] in <b>4.6.2.1 Call Features</b> in the Web user interface or "RESOURCELIST_URI_n" in <b>5.3.34 Call Control Settings</b> in the configuration file).</li> <li>Specify the number assigned to a BLF for performing call pickup (→ see [Directed Call Pickup] in <b>4.6.1.1 Call Control</b> in the Web user interface or "NUM_PLAN_PICKUP_DIRECT" in <b>5.3.30 Telephone Settings</b> in the configuration file).</li> </ul>	<b>Off:</b> The BLF extension is idle. <b>Red on:</b> A corresponding BLF extension is using the line. <b>Flashing red rapidly:</b> 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.	<b>Off:</b> The line is idle. <b>Blue on:</b> The line is on a call. <b>Flashing blue slowly:</b> A call is on hold. <b>Flashing blue rapidly:</b> A call (including Hold Recall) is being received to the line (or a shared line). <b>Red on:</b> A shared line is in use or a call is on private hold at another unit. <b>Flashing blue slowly:</b> A shared line is on hold at another unit.

## 6.3 Flexible Keys (For KX-HDV230/KX-HDV330/KX-HDV430)

Button	Description	Lamp Indication
ACD <sup>*1</sup>	<p>Used to log in or log out of a group when ACD (Automatic Call Distribution) is enabled.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>It is necessary to set the ACD feature to enable (→ see <b>[Enable ACD]</b> in <b>4.3.10 ACD Settings [Line 1]–[Line n]</b> in the Web user interface or "<b>ACD_ENABLE_n</b>" in <b>5.3.14 Call Center Settings</b> in the configuration file).</li> </ul>	<b>Off:</b> Logged in <b>Red on:</b> Logged out
Wrap Up <sup>*1</sup>	<p>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.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>It is necessary to set the ACD feature to enable (→ see <b>[Enable ACD]</b> in <b>4.3.10 ACD Settings [Line 1]–[Line n]</b> in the Web user interface or "<b>ACD_ENABLE_n</b>" in <b>5.3.14 Call Center Settings</b> in the configuration file).</li> </ul>	<b>Off:</b> Ready mode for incoming calls <b>Red on:</b> Unavailable <b>Flashing red slowly:</b> 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 <sup>“1”</sup>	<p>Enables parallel ringing. Up to 10 locations can be specified to ring simultaneously when you receive a call.</p> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>It is necessary to set the XSI feature to enable (→ see <b>[Enable Xtended Service]</b> and <b>[Server Address]</b> in <b>4.3.7 Xtended Service Settings</b> in the Web user interface or "XSI_ENABLE" and "XSI_SERVER" in <b>5.3.11 XSI Settings</b> in the configuration file).</li> </ul>	<b>Off:</b> Simultaneous Ring off <b>Blue on:</b> Simultaneous Ring on
Hoteling (Hospitality) <sup>“1”</sup>	Used to log in/log out of the Call Center Hoteling Event.	
	<b>Note</b>	
	<ul style="list-style-type: none"> <li>It is necessary to set the Hoteling (Hospitality) feature to enable (→ see <b>[Enable Call Center]</b> and <b>[Hoteling Event]</b> in <b>4.3.11 Call Center Settings [Line 1]–[Line n]</b> in the Web user interface or "CALL_CENTER_ENABLE_n" and "CC_HOTELING_EVENT_n" in <b>5.3.14 Call Center Settings</b> in the configuration file).</li> </ul>	
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 <sup>“1”</sup>	Used to transfer a call to Call Parking.	-
Call Park Retrieve <sup>“1”</sup>	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.	-

<sup>1</sup> 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) <sup>1</sup>	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	<ul style="list-style-type: none"><li>• 0: Local &amp; Remote</li><li>• 1: Local Phonebook</li><li>• 2: Remote Phonebook</li></ul>	Category	1–9
Call History	Classification	<ul style="list-style-type: none"><li>• 0: Call History</li><li>• 1: Missed Calls</li><li>• 2: Incoming Calls</li><li>• 3: Outgoing Calls</li></ul>	-	-
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 <sup>*2</sup>	Up to 16 digits	-	-
Call Park Retrieve	Park retrieve number <sup>*2</sup>	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	-	-	-	-

<sup>\*1</sup> More than 48 BLF keys can be programmed, but LED status indication is available only up to 48 keys.

<sup>\*2</sup> 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.

The screenshot shows the Panasonic KX-HDV230 web interface. The top navigation bar includes links for Status, Network, System, VoIP, Telephone, and Maintenance. The main menu on the left is under the Telephone category, with options like Call Control, Hotline Settings, Flexible Key Settings, Tone Settings, Import Phonebook, and Export Phonebook. The current page is titled "Flexible Key Settings". The table below lists 10 flexible keys, each with a number, type, parameter value, and label name.

Flexible Key Settings			
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.<sup>1</sup>
- 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.

<sup>1</sup> 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_IPTEL_ONETOUCH	Phone Number (Max. 32 characters)	Line Number (1-n)		Line 1 is set when value 2 is "1", "0", or "None".
X_PANASONIC_IPTEL_BLF	Phone Number (Max. 32 characters)	Line Number (1-n)		Line 1 is set when value 2 is "1", "0", or "None".
X_PANASONIC_IPTEL_LINE	Line Number (1-n)		-	The default line is set when value 1 is "0" or "None".
X_PANASONIC_IPTEL_ACD	Line Number (1-n)		-	The default line is set when value 1 is "0" or "None".
X_PANASONIC_IPTEL_WRAPUP	Line Number (1-n)		-	The default line is set when value 1 is "0" or "None".
X_PANASONIC_IPTEL_LINESTATUS		-	-	-
X_PANASONIC_IPTEL_FORWARD	Phone Number (Max. 32 characters)		-	-

Parameter 1	Parameter 2		
Value	Value 1	Value 2	Note
X_PANASONIC_IPTEL_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_IPTEL_CALLLOG	1 (Missed Call)	-	-
	2 (Incoming Call Log)		
	3 (Outgoing Call Log)		
	0 or None (Select Logs)	-	-
X_PANASONIC_IPTEL_PARARING	Line Number (1–n)	-	-
X_PANASONIC_IPTEL_HOTELING	-	-	-
X_PANASONIC_IPTEL_TRANSFER	Phone Number (Max. 32 characters)	-	-
X_PANASONIC_IPTEL_BLINDTRANSFER	Phone Number (Max. 32 characters)	-	-
X_PANASONIC_IPTEL_CONFERENCE	Phone Number (Max. 32 characters)	-	-
X_PANASONIC_IPTEL_DIRECTPICKUP	Phone Number (Max. 32 characters)	Line Number (1–n)	-
X_PANASONIC_IPTEL_CALLPARK	Call parking number (Max. 16 characters)	-	If value 1 is not set, the value of "NUM_PLAN_PARKING" is used.
X_PANASONIC_IPTEL_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_IPTEL_GROUPPICKUP	Phone Number (Max. 32 characters)	Line Number (1–n)	-
X_PANASONIC_IPTEL_NETWORKCAMERA (For KX-HDV430)	Network Camera Number (1–16)	-	-

## 6.4 Broadsoft XSI (Xtended Services Interface)

Parameter 1	Parameter 2			
	Value	Value 1	Value 2	Note
X_PANASONIC_IPTEL_APPLICATION	-	-	-	-
X_PANASONIC_IPTEL_PRESENCE	User ID (Up to 128 digits)	-	-	-
X_PANASONIC_IPTEL_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 336), 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 336), 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 239
XSI_SERVER	Specifies the XSI server.	page 239
XSI_SERVER_TYPE	Specifies the communication method.	page 239
XSI_SERVER_PORT	Specifies the port used for communication with the XSI server.	page 239
XSI_USERID_n	Specifies the user name for each user (account) that will use XSI.	page 240
XSI_PASSWORD_n	Specifies the password for each user (account) that will use XSI.	page 240
XSI_PHONEBOOK_ENABLE_n	Specifies whether to enable or disable the Xsi phonebook service.	page 240
XSI_PHONEBOOK_CYCLIC_INVL	Specifies the interval, in minutes, between periodic checks for updates of the Xsi Directory (Phonebook) files.	page 240
XSI_PHONEBOOK_RESYNC_DURATION	Specifies the time range, in minutes, during which units will access the server at a random time.	page 240
XSI_PHONEBOOK_TYPE_n	Specifies the type of Xsi phonebook.	page 241
XSI_CALLLOG_ENABLE_n	Specifies whether to enable or disable the Xsi call log service.	page 241
XSI_VISUAL_VM_ENABLE_n	Specifies whether to enable or disable the Visual Voice Mail feature of the selected line.	page 241
XSI_SIP_CREDENTIALS_ENABLE	Specifies whether to enable or disable the XSI SIP Credentials feature.	page 241

### Note

To change settings for the following XSI services using a unit, the parameter ADMIN\_ABILITY\_ENABLE="Y" (see page 334) 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)

## 6.5 BroadCloud (Presence)

---

- 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-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 243
UC_USERID	Specifies user IDs for the BroadCloud server.	page 243
UC_PASSWORD	Specifies passwords for the BroadCloud server.	page 244
XMPP_SERVER	Specifies the IP address or FQDN of the XMPP server.	page 244

Parameter Name	Description	Reference
XMPP_PORT	Specifies the communication port for XMPP.	page 244
XMPP_TLS_VERIFY	Specifies the TLS (Transport Layer Security) certification validation type for protocol communication.	page 244
XMPP_ROOT_CERT_PATH	Specifies the path (URL) of the ROOT certificate for XMPP.	page 244
XMPP_CLIENT_CERT_PATH	Specifies the path (URL) of the Client certificate for XMPP.	page 245
XMPP_PKEY_PATH	Specifies the path (URL) of the private key for XMPP.	page 245
UC_DNSSRV_ENA	Specifies whether to request the DNS server to translate domain names into IP addresses using the SRV record.	page 245
UC_TCP_SRV_PREFIX	Specifies a prefix to add to the domain name when performing a DNS SRV lookup using TCP.	page 245
UC_USERID_CASE_SENSITIVE	Specifies whether the authentication ID is case-sensitive when accessing the UC server.	page 245

## **6.5.2 BroadCloud (Presence) Function Settings**

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## **Section 7**

### **Firmware Update**

*This section explains how to update the firmware of the unit.*

## 7.1 Firmware Server Setup

No special server is necessary for the firmware update. 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

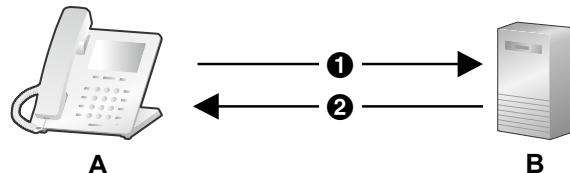
### Note

- 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](#).



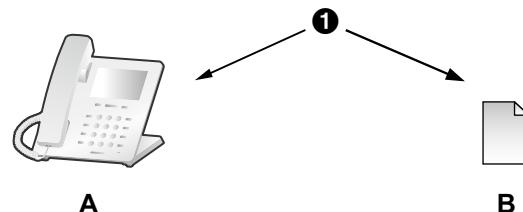
- ① Provisioning Server Address  
② Configuration File

- 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.

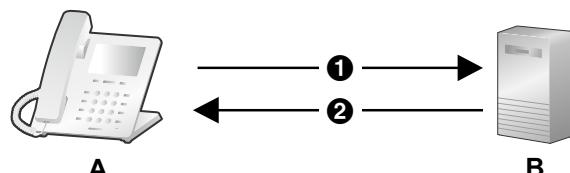
(In this example, the unit is using version 01.000 and the configuration file specifies version 01.050.)



- 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.	<ul style="list-style-type: none"><li>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.</li></ul>
I cannot hear a dial tone.	<ul style="list-style-type: none"><li>Network settings may not be correct.</li><li>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.</li><li>If you cannot access Internet Web pages using your PC, check to see if your phone system is having connection issues in your area.</li><li>Check the VoIP status in the Web user interface and confirm that each line is registered properly (→ see <b>To check the setting status in the Web user interface</b> in this section).</li><li>Check that the SIP server address, URLs of the configuration files, encryption key, and other required settings are correct.</li><li>Check the firewall and port forwarding settings on the router.</li><li>For details about the settings, consult your network administrator or phone system dealer.</li></ul>

## Making/Answering Calls, Intercom

Problem	Cause/Solution
The unit does not ring.	<ul style="list-style-type: none"> <li>• Check the VoIP status in the Web user interface and confirm that each line is registered properly (→ see <b>To check the setting status in the Web user interface</b> in this section).</li> <li>• Check that the SIP server address, URLs of the configuration files, encryption key, and other required settings are correct.</li> <li>• Check the firewall and port forwarding settings on the router.</li> <li>• Check [<b>Call Control</b>] for each line in the [<b>Telephone</b>] tab in the Web user interface. <ul style="list-style-type: none"> <li>– If [<b>Enable Do Not Disturb</b>] is set to [<b>Yes</b>], the unit does not receive calls (→ see <b>4.6.2.1 Call Features</b>).</li> <li>– If [<b>Enable Call Forwarding No Answer</b>] is set to [<b>Yes</b>], the unit does not receive calls (→ see <b>4.6.2.1 Call Features</b>).</li> <li>– If [<b>Enable Block Anonymous Call</b>] is set to [<b>Yes</b>], the unit does not receive anonymous calls (→ see <b>4.6.2.1 Call Features</b>).</li> </ul> </li> <li>• Check that [<b>Enable Do Not Disturb</b>], [<b>Enable Call Forwarding No Answer</b>], and [<b>Enable Block Anonymous Call</b>] are not controlled by your phone system.</li> <li>• For details about settings, consult your network administrator or phone system dealer.</li> </ul>
I cannot make a call.	<ul style="list-style-type: none"> <li>• Check the VoIP status in the Web user interface and confirm that each line is registered properly (→ see <b>To check the setting status in the Web user interface</b> in this section).</li> <li>• Check that the SIP server address, URLs of the configuration files, encryption key, and other required settings are correct.</li> <li>• Check the firewall and port forwarding settings on the router.</li> <li>• For details about settings, consult your network administrator or phone system dealer.</li> </ul>

## Password for Web User Interface Programming

Problem	Cause/Solution
I have lost the login password of the Web user interface for the Administrator or User account.	<ul style="list-style-type: none"> <li>• Consult your network administrator or phone system dealer. For security reasons, it is recommended that the passwords are set again immediately (→ see <b>4.4.3 Admin Password Settings</b> or <b>4.4.2 User Password Settings</b>).</li> </ul>

## 8.1 Troubleshooting

### Time

Problem	Cause/Solution
The time is not correct.	<ul style="list-style-type: none"><li>In the Web user interface, you can set NTP synchronization and DST (Summer Time) control to adjust the time automatically (→ see <b>4.4.4 Time Adjust Settings</b>).</li><li>If the time is still incorrect even after setting NTP synchronization, check the firewall and port forwarding settings on the router.</li></ul>

### 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 <b>1.1.3 Basic Network Setup</b> .
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-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**).

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