Provisioning Procedure by using multiple configuration files

(KX-UT1xx series/248)

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Ver.1.1

Panasonic Corporation

Abstract about this document

This document describes about overview of provisioning process and show how to do provisioning by using multiple configuration files.

Revision history

Date	Version	Revision	Firmware version
Jun. 22, 2011	Ver. 1.0	Initial Release	All versions
May 25, 2011	Ver. 1.1	Add description about UT248	All versions

Outline

1) Basic Provisioning Flow including Pre Provisioning

2) Explanation about type and priority of configuration files

3) Configuration Procedure for Provisioning by using WEB interface.

Basic Provisioning Sequence with Pre Provisioning



Types of Configuration file for Provisioning

■ There are three types of Configuration file.

Туре	Usage			
Master configuration file	 Common setting for all units SIP server address IP addresses of the DNS IP addresses of the NTP (Network Time Protocol) servers Example of the configuration file's URL: <u>http://prov.example.com/Panasonic/ConfigCommon.cfg</u> 			
Product configuration file	 Common setting for same model units Default setting of the privacy mode Used by all the units that have the same model name Example of the configuration file's URL: <u>http://prov.example.com/Panasonic/Config{MODEL}.cfg</u> 			
Standard configuration file	 Setting for each unit Phone number User ID 			
This is the file for detailed information.	 Password, etc. Example of the configuration file's URL: <u>http://prov.example.com/Panasonic/Config{MAC}.cfg</u> 			

Can be configured by using only one file of these three files.

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Priority of Settings

Setting priority

- Configured by different configuration methods: provisioning, Web user interface programming, etc.
- Settings configured later override previous settings

• Settings by Web are highest priority, can be changed by Web only. If configuration file is used after Settings by Web, Web settings should be reset.

Low	Setting Order	Priority	Setting Method
	1	4	The factory default settings for the unit
	2	3	Pre-provisioning with the configuration file
		2-3	Provisioning with the master configuration file
	3	2-2	Provisioning with the product configuration file
		2-1	Provisioning with the standard configuration file
High	4	1	Settings configured from the Web user interface or the phone user Interface

*lower numbers indicate higher priority

How to set Provisioning Information from WEB

Setting vary depend on how many configuration file you use.

<u>Case 1</u> : Provisioning by only 1 configuration file (Standard Configuration File) If you use only 1 file, then you can put URL into "Standard" Configuration File in WEB setting.

<u>Case 2</u> : Provisioning by 2 files (Master and Standard / Product and Standard) If you use 2 configuration files, then you can put URL into "Master" or "Product" configuration file in WEB setting.

And in configuration file, you need to specify the URL of "Standard" configuration file.

<u>Case 3</u> : Provisioning by 3 files (Master, Product and Standard) If you use 3 configuration files, then you can put URL into "Master" configuration file in WEB setting.

And in configuration file, you need to specify the URL of "Product" and "Standard" configuration file in WEB setting.

From next page, detailed step is described

How to set Provisioning Information from WEB (Case1 : With 1 file)

Setting Steps

Step 1. Put standard configuration file with all parameters into provisioning server.

provisioning server Standard Configuration File

Step 2. Enter Standard File URL into Provisioning Maintenance setting in WEB.

Enable Provisioning	© Yes ⊖ No
itandard File URL	http://192.168.0.10/Config{MAC}.cfg
Product File URL	
Master File URL	
Cyclic Auto Resync	O Yes ⊙ No
Resync Interval	10080 minute(s) [1-40320]
Header Value for Resync Event	check-sync

Step 3. Phone get Standard File from provisioning server from address input into WEB setting.

ß	7	
UT1	xx/248 prov	risioning server
	Get Standard Configurati	ion File
	Standard Configuration	File

How to set Provisioning Information from WEB (Case1 : With 1 file)

Step 1. Please put configuration file (Standard File) under server.



<u>Config{MAC}.cfg</u> : for each unit setting file like account name, password and SIP Server address.

**{MAC} indicate actual MAC address of phone

Example of "Config{MAC}.cfg" for Standard file.

# PCC Standard Format File # DO NOT CHANGE THIS LINE!					
# This is a simplified sample configuration file.					
	###########				
# Configuration Setting #					
#######################################	***************************************				
# URL of this configuration file					
CEG_STANDARD_FILE_PATH="tftp://192.168.0.10/Config	MAC) cfa"				
# SIP Settings #					
# Suffix " 1" indicates this parameter is for "line 1". #					
#######################################	*****				
# IP Address or FQDN of SIP registrar server, proxy server					
SIP RGSTR ADDR 1="registrar.example.com"					
SIP PRXY ADDR 1="proxy.example.com"	IP PRXY ADDR 1= registrational pictori				
IP Address or FQDN of SIP presence server					
SIP PRSNC ADDR 1="presenceserver.example.com"					
# Enables DNS SRV lookup					
SIP DNSSRV ENA 1="Y"					
# ID_password for SIP authentication					
SIP AUTHID 1="SIP User"					
SIP PASS 1="SIP Password"					
# Some Timer Settings #					
# Expiration time of SIP registration: "1 hour"	Please refer administrator duide for more				
REC EXPIRE TIME 1-"3600"	riedee ferer dammetater guide for more				
# Disables SIP Session Timer (PEC 4028)	detailed about each peremeter				
SID SESSION TIME 1-"0"	uelalieu abuul each paramelei				
	•				

How to set Provisioning Information from WEB (Case1 : With 1 file)

Step 2. After you log in to WEB setting menu by administrator account, Please go to [Maintenance] -> [Provisioning Maintenance] menu.

KX-UT136	Status	Network	System	VolP	Telephone	Maintenance
Web Port Close	Firmwa		ire Mai	ntenance		
Maintenance	Firmware	Maintenanc	e			
Firmware Maintenance	Enable Firmware Update		date	📀 Yes 🔿	No	
Local Firmware Update	Update Type			 Autom 	natic 🔾 Manual	
Provisioning Maintenance	Firmware File URL					
Management Server						
Reset to Defaults	Save Cancel					
Restart						

Please input file path of configuration file for "Standard" where you put and set "Yes" for [Enable Provisioning]. And press [save] button.

Provisioning Maintenance				
Enable Provisioning	⊙ Yes O No			
Standard File URL	http://192.168.0.10/Config{MAC}.cfg			
Product File URL				
Master File URL				
Cyclic Auto Resync	⊖ Yes ⊙ No			
Resync Interval	10080 minute(s) [1-40320]			
Header Value for Resync Event	check-sync			
Save Cancel				

How to set Provisioning Information from WEB (Case2 : With 2 files)

Setting Steps

Step 1. Put Master configuration file with Standard File URL and Standard configuration file with each unit parameters into provisioning server.

Step 2. Enter Master File URL into Provisioning Maintenance setting in WEB.



Yes O No

) Yes 🔍 No

10080

Save

check-sync

Cancel

http://192 168 0 10/Configcommon c

minute(s) [1-40320]

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Enable Provisioning

Standard File URL

Product File URL

Cyclic Auto Resync

Header Value for Resync

Master File URI

Resync Interval

Step 3. Phone get Master File from provisioning server from address input into WEB setting.

And then, Phone get Standard File from provisioning server by using address described in Master File.



How to set Provisioning Information from WEB (Case2 : With 2 files)

Step 1. Please put configuration file under server.

Config0080F0C56F69.cfg Config0080f0c5728f.cfg Config0080f0c57017.cfg Config0080f0c57017.cfg ConfigCommon.cfg <u>ConfigCommon.cfg</u> : for common setting across all phones, like SIP server address. <u>Config{MAC}.cfg</u> : for each unit setting file like account name, password. **{MAC} indicate actual MAC address of phone

Example of "ConfigCommon.cfg" for Master file.



How to set Provisioning Information from WEB (Case2 : With 2 files)

Step 2. After you log in to WEB setting menu by administrator account, Please go to [Maintenance] -> [Provisioning Maintenance] menu.

KX-UT136	Status Network	System Vo	olP Telephone	Maintenance
Web Port Close	Firmware Maintenance			
Maintenance	Firmware Maintenance			
Firmware Maintenance	Enable Firmware Upda	ate 💿	∕es O No	
Local Firmware Update	Update Type		Automatic O Manual	
Provisioning Maintenance	Firmware File URL			
Management Server				
Reset to Defaults Restart	Save Cancel			

Please input file path of configuration for "Master" file where you put and set "Yes" for [Enable Provisioning]. And press [save] button.

Provisioning Maintenance				
Enable Provisioning				
Standard File URL				
Product File URL				
Master File URL	http://192.168.0.10/Configcommon.cfg			
Cyclic Auto Resync	⊙ Yes No			

Note : you don't need to input Standard File URL. Standard File URL is obtained from Master File as described in previous page.

Cancel

Save

How to set Provisioning Information from WEB (Case3 : With 3 files)

provisioning server

ovisioning Maintenand Enable Provisioning

Standard File URL

Product File URL

Master File URL

Resync Interval

Cyclic Auto Resync

Header Value for Resync

Setting Steps

Step 1. Put Master configuration file with Standard/Product File URL and Standard configuration file with each unit parameters into provisioning server.

Step 2. Enter Master File URL into Provisioning Maintenance setting in WEB.

Step 3. Phone get Master File from provisioning server from address input into WEB setting. And then, Phone get Product / Standard File from provisioning server by using address described in Master File.



Yes O No

) Yes 🔍 No

10080

Save

check-sync

Cancel

Master Configuration File

http://192_168_0_10/Configcommon_c

minute(s) [1-40320]

ProductConfiguration File

Standard Configuration File

How to set Provisioning Information from WEB (Case3 : With 3 files)

Step 1. Please put configuration file under server.



<u>ConfigCommon.cfg</u> : for common setting across all phones, like SIP server address. Config{MODEL}.cfg for each model setting. **{MODEL} indicate the model name of phone <u>Config{MAC}.cfg</u> : for each unit setting file like account name, password. **{MAC} indicate actual MAC address of phone

Example of "ConfigCommon.cfg" for Master file.



There is a file path for Standard file and Product file. So that phone can know the address of Standard file and Product file after download Master file.

How to set Provisioning Information from WEB (Case3 : With 3 files)

Step 2. After you log in to WEB setting menu by administrator account, Please go to [Maintenance] -> [Provisioning Maintenance] menu.

KX-UT136	Status Network	System VolP	Telephone	Maintenance
Web Port Close	Firmware Maintenance			
Maintenance	Firmware Maintenance			
Firmware Maintenance	Enable Firmware Updat	te 💿 Yes 🔿	No	
Local Firmware Update	Update Type	 Autom 	natic O Manual	
Provisioning Maintenance	Firmware File URL			
Management Server				
Reset to Defaults Restart	Save Cancel			

Please input file path of configuration for "Master" file where you put and set "Yes" for [Enable Provisioning]. And press [save] button.

Provisioning Maintenance			
Enable Provisioning			
Standard File URL			
Product File URL			
Master File URL	http://192.168.0.10/Configcommon.cfg		
Cyclic Auto Resync	⊙ Yes ⊚ No		

Note : you don't need to input Standard / Product File URL. Standard / Product File URL are obtained from Master File as described in previous page.

Cancel

Save

Note : this procedure required if you'd like to clean all of setting via web menu before provisioning. And network setting will be back to default also. If you don't need clean all setting, then please ignore this step.

Please go to [Maintenance] -> [Reset to Defaults] menu.

KX-UT136	Status Network System	n VolP Telephone	Maintenance
Web Port Close	Firmware Maintenance		
Maintenance	Firmware Maintenance		
Firmware Maintenance	Enable Firmware Update	⊙ Yes ○ No	
Local Firmware Update	Update Type	⊙ Automatic ○ Manual	
Provisioning Maintenance	Firmware File URL		
Management Server			
Reset to Defaults	Save Cancel		
Restart			

Please click [Reset Web Settings] to remove all settings.

KX-UT136	Status Network System VoIP Telephone Maintenance		
Web Port Close	Reset to Defaults		
Maintenance	Reset Web Data		
Firmware Maintenance	The Web data for this unit will be reset to its default values when you click [Reset Web Settings].		
Local Firmware Update			
Provisioning Maintenance			
Management Server	Reset Web Settings		
Reset to Defaults			
Restart			

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How to access Web user interface

- 1. Confirm the IP address of KX-UT1xx/248.
 - 1-1 : [Setting] (Left soft key) → select [Information Display] → [Enter] → [Down] (joystick).
 - 1-2 : Confirm the IP address displayed on LCD.
- 2. Embedded Web.
 - 2-1 : [Setting] (Left soft key) \rightarrow [#][5][3][4].
 - 2-2 : Select [On] \rightarrow [Enter].
- 3. Access the Web user interface.
 - 3-1 : Open your Web browser.
 - 3-2 : Enter your KX-UT1xx/248 URL to Web browser (http://your KX-UT1xx/248 IP address) .
 - 3-3 : Enter Authentication ID and password and click "OK". (Default :ID="admin", password="adminpass")