How to update UDS/UDT Firmware

(KX-UDS/UDT series)

No. 42-001

August 21 , 2012

Ver.1.0

Panasonic Corporation

Abstract about this document

This document describe about procedure for Firmware update

Revision history

Date	Version	Revision	Firmware version
Aug 21, 2012	Ver. 1.0	Initial Release	All versions

Outline of Firmware Update

Outline



- #1 : FW (Firmware) is released as a file which includes CS-FW and PS-FW. This packed file is imported into CS via network, and CS is upgraded with CS-FW.
- #2 : PS receives PS-FW from CS by air (Air Download), and upgrade itself. Only registered PS can start air download.

Outline - FW update from Web UI



Note: CS firmware is download at first and then CS resets. It will take approx. 10minutes per one CS to download the firmware.

Outline - FW update from File server



How to confirm Firmware version (in Web UI)

	SIP CS KX-UDS124	Status	Network	System	Maintenance	
	Web Logout Web Port Close		Versio	on Informatic	n	
	Status	CS Version Info	ormation			
	Version Information	Model		KX-UDS124		i –
	Network Status	Operating Ba	nk	Bank2		
<u>Firmware File</u>		IPL Version		01.09		
		Firmware Ver	sion	Bank1: 00.123	_	
CS firmware 🗲			0.0.1	Bank2: 01.002		
		VoIP Version		02.33f.1925		
		PS Version Info	rmation (Model 1)			
PS Firmware		Model		KX-UDT111		
		Firmware Ver	rsion	01.08.000		
		PS Version Information (Model 2)				
		Model		KX-UDT121		
		Firmware Ver	sion	01.08.000		
		PS Version Info	rmation (Model 3)			
		Model				

How to confirm PS Firmware version (in PS menu)



- 1. Turn on the PS.
- 2. Press [Menu] or the [CENTER] navigation key.
- 3. Select "Setting Handset" and then press [OK].
- 4. Press [NEXT].
- 5. Select "System Option" and then press [OK].
 - You may need to enter a system password to access this menu.
- 6. Press [NEXT] to display the second screen, select "H/S Information", and then press [OK].
- 7. When the operation is complete, Firmware version and IPEI are displayed.



<Step.1> CS Download Firmware

<Step.2> PS Download Firmware

<Step1 (1)> How to download FW into CS (with Web UI)

1. Log in to the Super Master CS [ID:admin / Password:adminpass]

Refer to Appendix about "How to open Web port" and "How to find out IP address of Super master CS".

	Panasonic			2			
	SIP CS KX-UDS124	Status Network	System VolP	Telephone	Maintenance		
	Web Logout Web Port Close		All Firmware	Update		[D Ca af	Direct] S reboots immediately iter download, and new W starts to control the CS
2	Maintenance Firmware Maintenance All Firmware Update	Update Mode Mode	⊙ Direct ○ Appo	pint Date/Time	>	af di C	iter reboot. Also it starts to istribute new FW to other Ss.
	Maintenance Restart	Date Time	1 / 31 / 2012 00 : 00 [hh : r	[mm / dd / yyyy nm]]	[4	Appoint Date/Time]
		Update Firmware Encryption File Name	3 OYes ONo 4 All Update Firm	ware	参照	C af F\ af di C	S reboots appointed time fter download, and new W starts to control the CS fter reboot. Also it starts to istribute new FW to other Ss.

- 2. Go to [Maintenance] -> [All Firmware Update]
- 3. Specify the File of new Firmware at [File Name].
- 4. Press [All Update Firmware]

Then Super master CS updates the FW according to the sequence shown in Page.5

Note: Super master CS turns off its LED while it is receiving the FW from PC. The other CS changes its LED to orange once and then change it green again while it is receiving the FW from super master.

<Step1 (2)> How to download FW into CS (with Server)

Set file path with Web UI

1. Log in to the Super Master CS [ID:admin / Password:adminpass]

Refer to Appendix about "How to open Web port" and "How to find out IP address of Super master CS".

Panasonic	3	
SIP CS KX-UDS124	Status Network System VoIP Telephone Maintenance	_
Web Logout Web Port Close	Firmware Maintenance	
2 Maintenance Firmware Maintenance All Firmware Update Provisioning Maintenance	Firmware Maintenance Enable Firmware Update Firmware File URL PS Update Type	Neter
Go to [Mainte Specify [Firmy	4 All Save Cancel nance] -> [Firmware Maintenance] ware File URL1	Note: "PS update Type" can be selected here. Details are explained in page.13.

4. Press [All Save]

Super master CS updates the FW according to the sequence shown in Page.6.

<Step1 (2)> How to download FW into CS (with Server)

Set file path with Configuration file

1. Log in to the Super Master CS [ID:admin / Password:adminpass]

Refer to Appendix about "How to open Web port" and "How to find out IP address of Super master CS".

Panasonic	2	
SIP CS KX-UDS124	Status Network System VolP Telephone Main	tenance Configuration file
Web Logout	Provisioning Maintenance	(Refer to Administration Guide in
Web Port Close		## Firmware Update Settings
intenance	Provisioning Maintenance	FIRM_UPGRADE_ENABLE="Y"
Firmware Maintenance	Enable Provisioning O Yes O No	
All Firmware Update	Standard File URL	FIRM_UPGRADE_AUTO="Y"
rovisioning Naintenance	Product File URL	FIRM_FILE_PATH=http://xxxxx
estart	Master File URL 3	
	System File URL	
	Cyclic Auto Resync O Yes ⊙ No	
	Resync Interval 10080 minute(s) [1-40320]	
	Header Value for Resync Event check-sync	
	4 All Save Cancel	Provisioning Server

- 2. Go to [Maintenance] -> [Provisioning Maintenance]
- 3. Specify [System File URL]
- 4. Press [All Save]

Super master CS updates the FW according to the sequence shown in Page.6 if configuration file is put in provisioning server.

<Step2> PS download setting (PS Update Type confirmation)

1. Log in to the Super Master CS [ID:admin / Password:adminpass]

Refer to Appendix about "How to open Web port" and "How to find out IP address of Super master CS".

Panasonic	2
SIP CS KX-UDS124	Status Network System VolP Telephone Maintenance
Web Logout Web Port Close	Firmware Maintenance
Maintenance	Firmware Maintenance
Firmware Maintenance	Enable Firmware Update O Yes O No
All Firmware Update	Firmware File URL 3
Provisioning Maintenance	PS Update Type O Automatic O Manual
Restart	
	All Save Cancel

- 2. Go to [Maintenance] -> [Firmware Maintenance]
- 3. Select [PS Update Type] :

[Automatic] :PS starts air download automatically,

when CS is upgraded and PS is in standby mode.

[Manual] :PS starts air download when user operate "Firmware Update". This menu in PS appears when PS is in standby mode under CS which has newer PS firmware.

<Step2> Air download (PS LCD indication)

Following operation is required when "PS Update Type" is "Manual".



- 1. Turn on the PS.
- 2. Press [Menu] or the [CENTER] navigation key.
- 3. Select "Setting Handset" and then press [OK].
- 4. Press [NEXT].
- 5. Select "System Option" and then press [OK].
 - You may need to enter a system password to access this menu.
- 6. Press [NEXT] to display the second screen, select "Firmware Update", and then press [OK].
- 7. When the operation is complete, PS starts air download sequence.

<Step2> Air download (PS LCD indication)

Sequence for firmware update confirmation status



Precaution & Trouble shooting

Precaution

- 1. When multiple CS are upgraded by "All Firmware Update" function, multiple CS are update step by step. It takes approx. 10 minutes for each CS complete upgrade.
- 2. When PS becomes low battery condition, PS suspends air download sequence. Please put PS on charger during air download. If once "charge battery" message appear on LCD, please put PS on charger. PS resumes air download automatically after batteries are charged enough to execute it.
- 3. A CS can support air download for 4 PS simultaneously. Excess PSs start air download after other 4 PS completes download.
- 4. It will take maximum approx. 15minutes for PS to complete air download.
- 5. PS resets several times until it completes air download as previously described.
- 6.If PS with old FW is registered after FW upgrade for CS, PS can start air download according to the PS Update Type at this timing.
- 7. PS doesn't start air download while it is establishing a call, even if air download is ready. Conversely, PS can't make and receive a call until air download completes once it starts.

CS Error during firmware update

Error Message	Explanation	Solution
Failed (Parameter Error)	Parameter is invalid or out of range.	Check the format of the URL and other parameters.
Failed (Memory Access Failure)	R/W access error to Flash memory.	CS needs repairing.
Failed (Transfer Failure)	Fail to transfer data because of network error.	Solve the network trouble.
Failed (Busy)	The operation failed because the SIP-CS is performing an operation that accesses the flash memory of the SIP-CS.	Retry again.
Failed (Invalid File)	Firmware is invalid.	Check if file path and file are correct.
Failed (File Size Error)	Size of firmware is not correct.	Check if file path and file are correct.
Failed (Time Un-setting)	Time is not set in CS even if update mode is appointed time.	 1)Change update mode to Direct. 2)Set time or path to NTP server.

PS Error during firmware update

Error Message	Explanation	Solution
CS Busy	CS Busy	Please keep the condition and wait PS to start download automatically.
<charge battery=""></charge>	Low battery	Put PS on charger and wait for a while. PS resumes air download after it is charged enough to execute air download.
<need #="" repair=""> (#=1~9)</need>	Flash memory error	PS needs repairing.
<error #=""> (#=1~2)</error>	Flash memory error	PS needs repairing.

Appendix

Appendix A : How to Open the CS Web port

Please move under the CS



- 1. Turn on the PS.
- 2. Press [Menu] or the [CENTER] navigation key.
- 3. Select "Setting Handset" and then press [OK].
- 4. Press [NEXT].
- 5. Select "System Option" and then press [OK].
 - You may need to enter a system password to access this menu.
- 6. Press [NEXT] to display the second screen, select "Enable CS Web", and then press [OK].
- 7. When the operation is complete, "CS Web Enabled" is displayed.



Appendix B : How to find out IP Address of Super Master CS

Please move under the Super Master CS

Master CS IP address



- 1. Turn on the PS.
- 2. Press [Menu] or the [CENTER] navigation key.
- 3. Select "Setting Handset" and then press [OK].
- 4. Press [NEXT].
- 5. Select "Other Option" and then press [OK].
- 6. Select "MasterCSAddress" and the press [OK].
 - Display the Master CS IP address.