

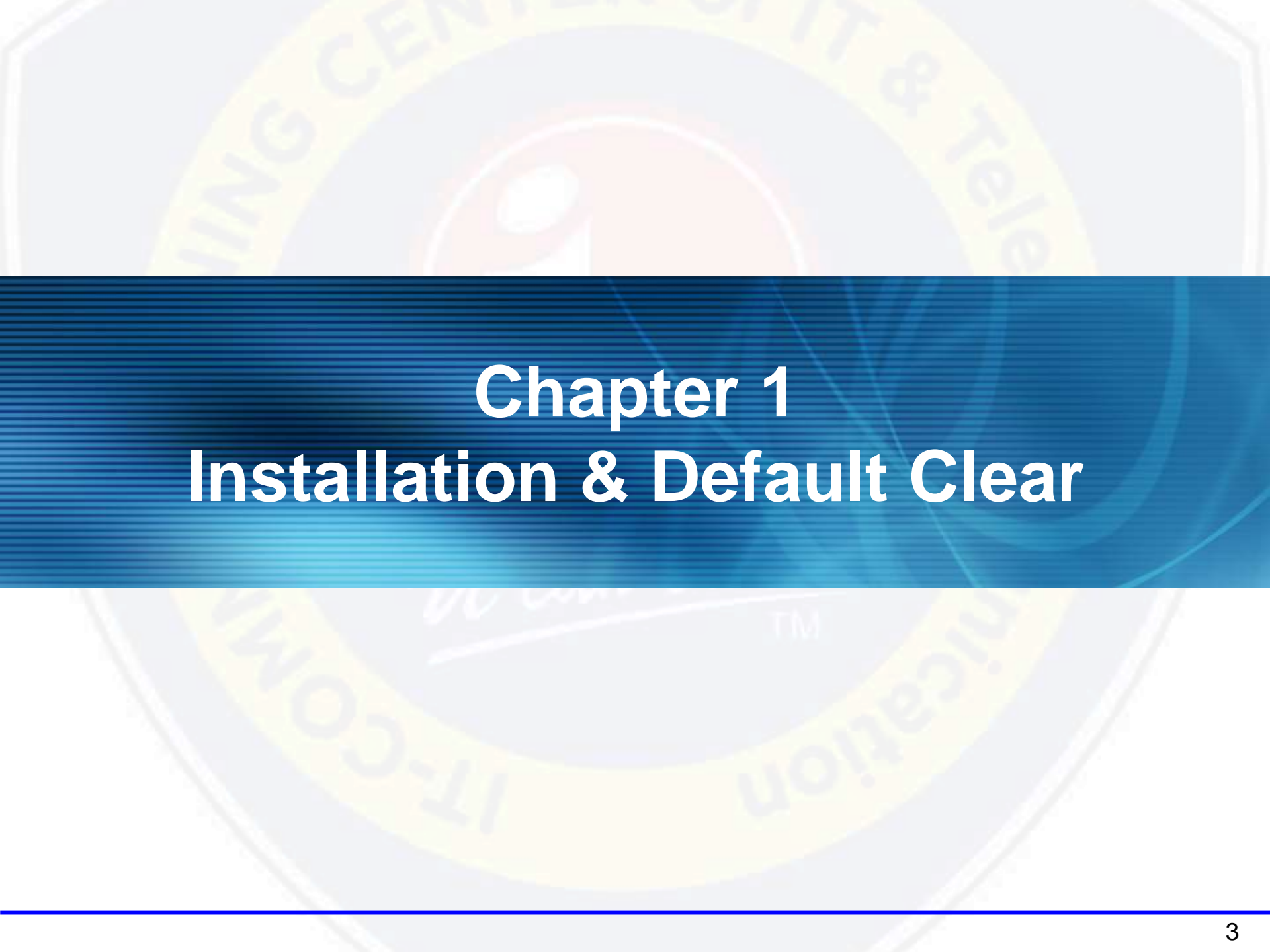
KX-NS Step by Step Guide

Initial Setup

Specifications are subject to change without notice.

1. Table of Contents

Chapter	Explanation
1	Installation and Default Clear
2	Web Maintenance Console : Easy Set-up Wizard
3	Web Maintenance Console : After Easy Set-up
4	PT Programming



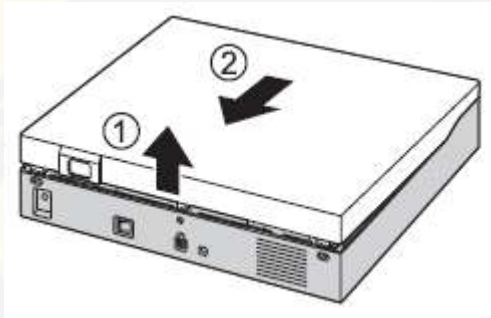
Chapter 1

Installation & Default Clear

11. Card Installation

Optional card has to be installed during power-off.

1. Power Off.
2. Install required hardware to main cabinet and expansion cabinets.
3. Connect main cabinet and expansion cabinets.



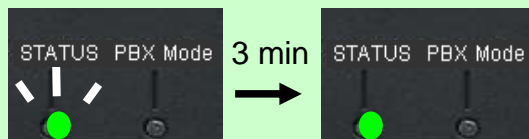
12. Default Clear

Power-on with default clear is required at first.

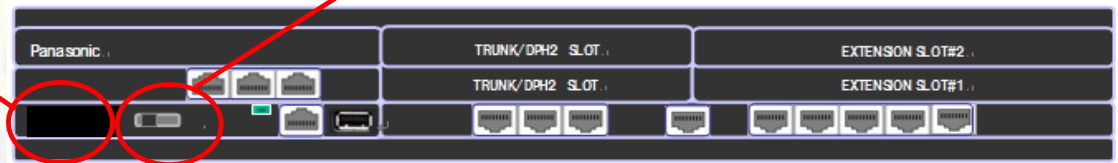
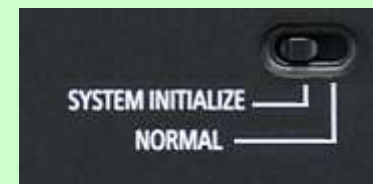
Operation for default clear is same as KX-TDA/TDE/NCP.

1. Power Off.
2. Install required hardware to main cabinet and expansion cabinet.
3. Connect main cabinet and expansion cabinet.
4. Set system mode switch to "SYSTEM INITIALIZE".
5. Power On and wait for 10s.
=> STATUS LED becomes green rapid flash.
6. Return the switch to NORMAL
=> STATUS LED becomes green slow flash.
7. Wait for 3 minutes until LED flash stops.

LED



System Mode Switch



13. Default Data

Default data is basically same as KX-TDA/TDE/NCP. For example, default of floating extension is as follows.

Extension List View			Extension List View			Extension List View		
Extension Number	Type	Extension Name	Extension Number	Type	Extension Name	Extension Number	Type	Extension Name
	ALL			ALL			ALL	
500	UM Group	Voicemail 1	564	OGM (DISA)	DISA 64	655	ICD Group	ICD Group 055
501	OGM (DISA)	DISA 01	591	SVM	Voice Msg 1	656	ICD Group	ICD Group 056
502	OGM (DISA)	DISA 02	599	MODEM		657	ICD Group	ICD Group 057
503	OGM (DISA)	DISA 03	600	Pager		658	ICD Group	ICD Group 058
504	OGM (DISA)	DISA 04	601	ICD Group	ICD Group 001	659	ICD Group	ICD Group 059
505	OGM (DISA)	DISA 05	602	ICD Group	ICD Group 002	660	ICD Group	ICD Group 060
506	OGM (DISA)	DISA 06	603	ICD Group	ICD Group 003	661	ICD Group	ICD Group 061
507	OGM (DISA)	DISA 07	604	ICD Group	ICD Group 004	662	ICD Group	ICD Group 062
508	OGM (DISA)	DISA 08	605	ICD Group	ICD Group 005	663	ICD Group	ICD Group 063
509	OGM (DISA)	DISA 09	606	ICD Group	ICD Group 006	664	ICD Group	ICD Group 064
510	OGM (DISA)	DISA 10	607	ICD Group	ICD Group 007	699	ISDN Remote	

Default for KX-NS1000 is different from above.



Chapter 2

Web MC : Easy Setup Wizard

KX-TDE-NCP Quick setup feature is supported by this feature.

21. Connect PC

KX-NS PBX supports built-in web server for programming. So Unified PCMC application is not required.

1. Set fixed IP address to PC. For example 192.168.0.190.
2. Connect KX-NS PBX and PC directly or through LAN HUB.
3. Connect 192.168.0.101 from PC using Firefox (recommend) or MS Internet Explorer 8.



192.168.0.190



192.168.0.101 by default

Only KX-NS1000 has dedicated LAN port for maintenance. It supports DHCP server function by default.

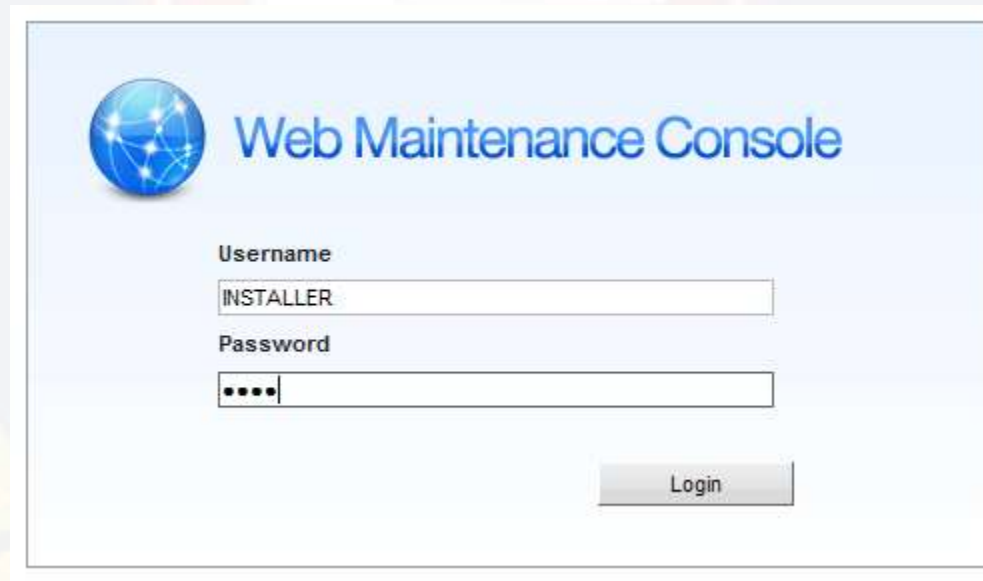



KX-NS1000

223.0.0.1 192.168.0.101

22. Log-in to Web Maintenance Console

1. Username : INSTALLER
2. Password : 1234
3. Click [Login].




 Web Maintenance Console

Username

Password

23. Start Easy Setup Wizard

1. Select language.
2. Select location. This selection is available only for “KX-NSxxxNE” and so on.
3. Change password from “1234” or input “1234” again.
4. Click [Start Setup Wizard].



Easy Setup Wizard

Welcome to Panasonic KX-NS500

WebMC Language Setting
English (UK) ▼

Location Setting
Area Code: BX ▼

Password Setting

Installer password (4-16 characters): ●●●●

Re-enter (4-16 characters): ●●●●

CAUTION: It is strongly recommended that a password should be complex for maximum protection. Change the password periodically.

Start Setup Wizard

Close

24-1. Step 1

1. Select correct time zone and time.
2. Click [Next]. Default is OK for other setting.

Easy Setup Wizard

1 Date & Time

2 Numbering

3 Manager / Operator

4 Trunk

5 LAN

6 VoIP (Ext)

Date & Time

Time Zone: +0 : 00

Local Time: 2013/12/09 14:37:07

Automatic Time Adjustment:

Disabled ISDN and Caller ID (FSK) SNTP

IP Address:

Port: 123

Daylight Saving

Enable Disable

Previous Next Close

24-2. Step 2

1. Select parameter. (Default is OK.)
2. Click [Next].

Easy Setup Wizard

1 Date & Time
2 **Numbering**
3 Manager / Operator
4 Trunk
5 LAN
6 VoIP (Ext)

Numbering

Feature No
 Type1 (with "9") Type2 (without "9")

CO Access / Operator No
CO Access No Dial "0" Dial "1" Dial "9"
Operator No Dial "0" Dial "9"

Select default value of Numbering Plan
 3 digits Extension Number
 From "101" From "201"
 4 digits Extension Number
 From "1001" From "2001"

Previous Next Close

24-3. Step 3

1. Select parameter. (Default is OK.)
2. Click [Next].

Easy Setup Wizard

1 Date & Time

2 Numbering

3 Manager / Operator

4 Trunk

5 LAN

6 VoIP (Ext)

Manager / Operator

Manager Extension : 101

Operator : 101

* Incoming call is distributed to operator. :

Previous Next Close

24-4. Step 4

1. Select parameter. (Default is OK.)
2. Click [Next].

Easy Setup Wizard

- 1 Date & Time
- 2 Numbering
- 3 Manager / Operator
- 4 Trunk**
- 5 LAN
- 6 VoIP (Ext)

Trunk

CO Dialling Mode

DTMF Pulse

Selection for PRI30 / E1

PRI30 E1

Incoming Call Distribution Group

Do you wish to set separate ICD Groups automatically as DIL destinations for all installed LCOT ports ?
If you select "Yes", incoming calls can appear on different PT S-CO buttons when multiple incoming DIL calls arrive simultaneously at the LCOT ports, and so on.
Please select "No" if the ICD Group Queuing feature is to be used (in Contact Center for example).

If you select "Yes", the following items are set automatically:

1. [10.2 DIL Table & Port Settings](Max:64 trunks)
No.1 [DIL Destination](Day/Lunch/Break/Night) : 601
No.2 [DIL Destination](Day/Lunch/Break/Night) : 602
::: :
2. [3.5.1 Group Settings]
32 extensions are assigned to ICD Groups(No.1-No.64) as members
3. [3.5.1 Group Settings]
"All" is set for [Call Waiting Distribution] of ICD Groups(No.1-No.64) in [Main]

Yes No

Previous Next Close

24-5. Step 5

For demo

1. Default is OK for (1)
2. Select “Use the following ” for (2).
Default is OK for IP address.
3. Click [Next].

For actual installation, get fixed local IP address from administrator of customer’s network.

Easy Setup Wizard

1 Date & Time
2 Numbering
3 Manager / Operator
4 Trunk
5 LAN
6 VoIP (Ext)

LAN

IP Address for main unit

Obtain an IP address automatically

Use the following IP address

IP Address: 192.168.0.101
Subnet Mask: 255.255.255.0
Default Gateway: 0.0.0.0

IP Address for DNS server

Obtain DNS server address automatically

Use the following DNS server address

Preferred DNS IP Address: 0.0.0.0
Alternative DNS IP Address: 0.0.0.0

IP Address for DSP

Obtain DSP IP address automatically

Use the following DSP IP address

DSP 1 IP Address: 192.168.0.102
DSP 2 IP Address: 192.168.0.103

Previous Next Close

→ (1)

→ (2)

24-6. Step 6

1. Virtual card for IP extension can be installed. (Default is OK.)
2. Click [Finish]. Default is OK for other setting.

Easy Setup Wizard

- 1 Date & Time
- 2 Numbering
- 3 Manager / Operator
- 4 Trunk
- 5 LAN
- 6 VoIP (Ext)**

VoIP (Ext)

Number of IP Extensions

	Number of IP Extensions (Max)		Number of cards (Max 4)
IP-PT (NT)	<input type="text" value="4"/>	V-IPEXT	1
UT/UDT	<input type="text" value="0"/>	V-UTEXT	0
SIP-Phone	<input type="text" value="0"/>	V-SIPEXT	0
Total	4		1

IP Terminal Registration Mode

- Manual
- Full Automatic
- Extension Number Input

DHCP Server

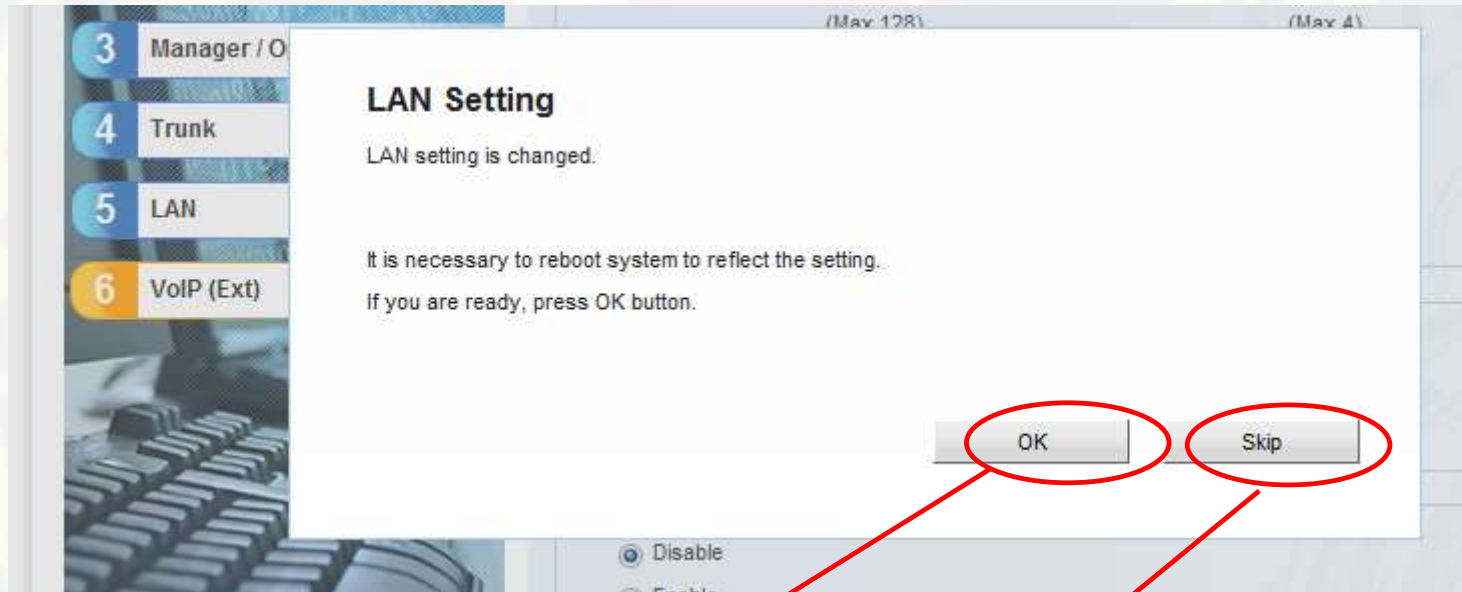
- Disable
- Enable

Starting IP address Ending IP address

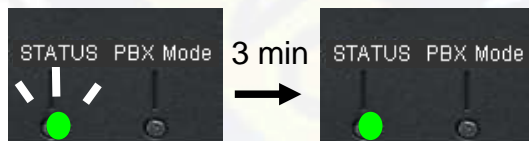
Previous Finish Close

25. Restart Again

When LAN setting is changed, restart is required to activate the setting.



Restart now and wait for 3 minutes again.



Restart later and continue programming.

(KX-TDE/NCP and KX-NS1000 did not have this option.)

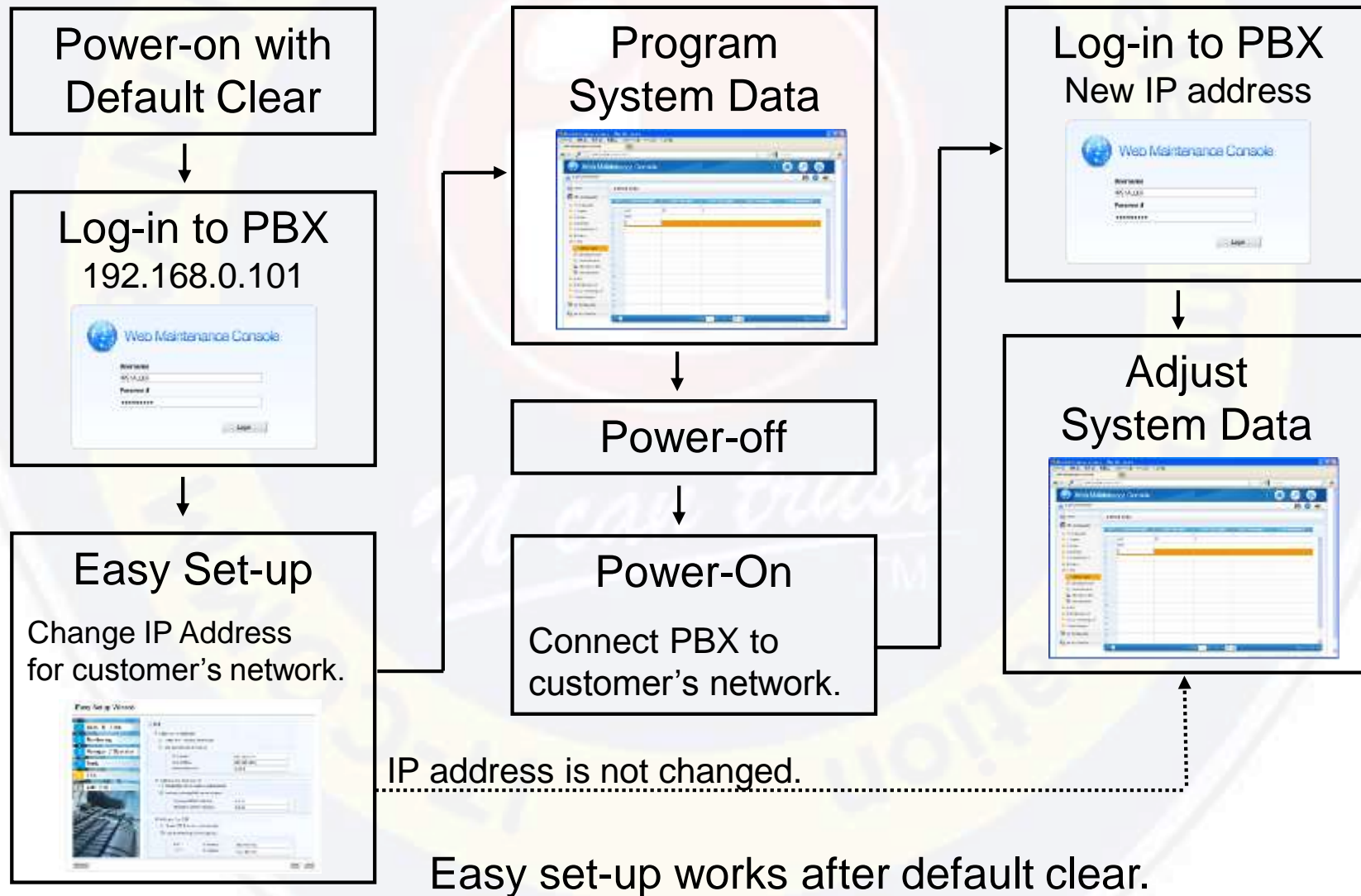


Chapter 3

Web MC : After Easy Set-up

31. Programming Process

Programming process is as follows.



32. Web Maintenance Console Overview

Web-MC supports set-up and maintenance like Unified PCMC for KX-TDA/TDE-NCP.

Web Maintenance Console

Login as INSTALLER

Users

PBX Configuration

1. Configuration

- 1. Slot
- 2. Portable Station
- 3. Option
- 4. Clock Priority
- 5. DSP Resources

2. System

- 3. Group
- 4. Extension
- 5. Optional Device
- 6. Feature

Slot

System Property | Activation Key | IP Phone Registration | VoIP Property | UM Property

Trunk Slot Card	
LCOT6	
PRI30	
E1	
DPH2	

Extension Slot Card	
MCSLC16	
MCSLC8	
DLC16	
DLC8	
DHLCL4	

Panasonic Basic

5 Trunk/DPH2 7 Extension



Set-up PBX and VM feature



Save data.



Maintenance (Utility / Tool)



Exit (Data is saved.)

33. Set-up for PBX and Built-in Voice Mail

Web-MC supports all programming for PBX and Voice Mail. How to set-up is same as KX-TDA/TDE/NCP and KX-TVM.

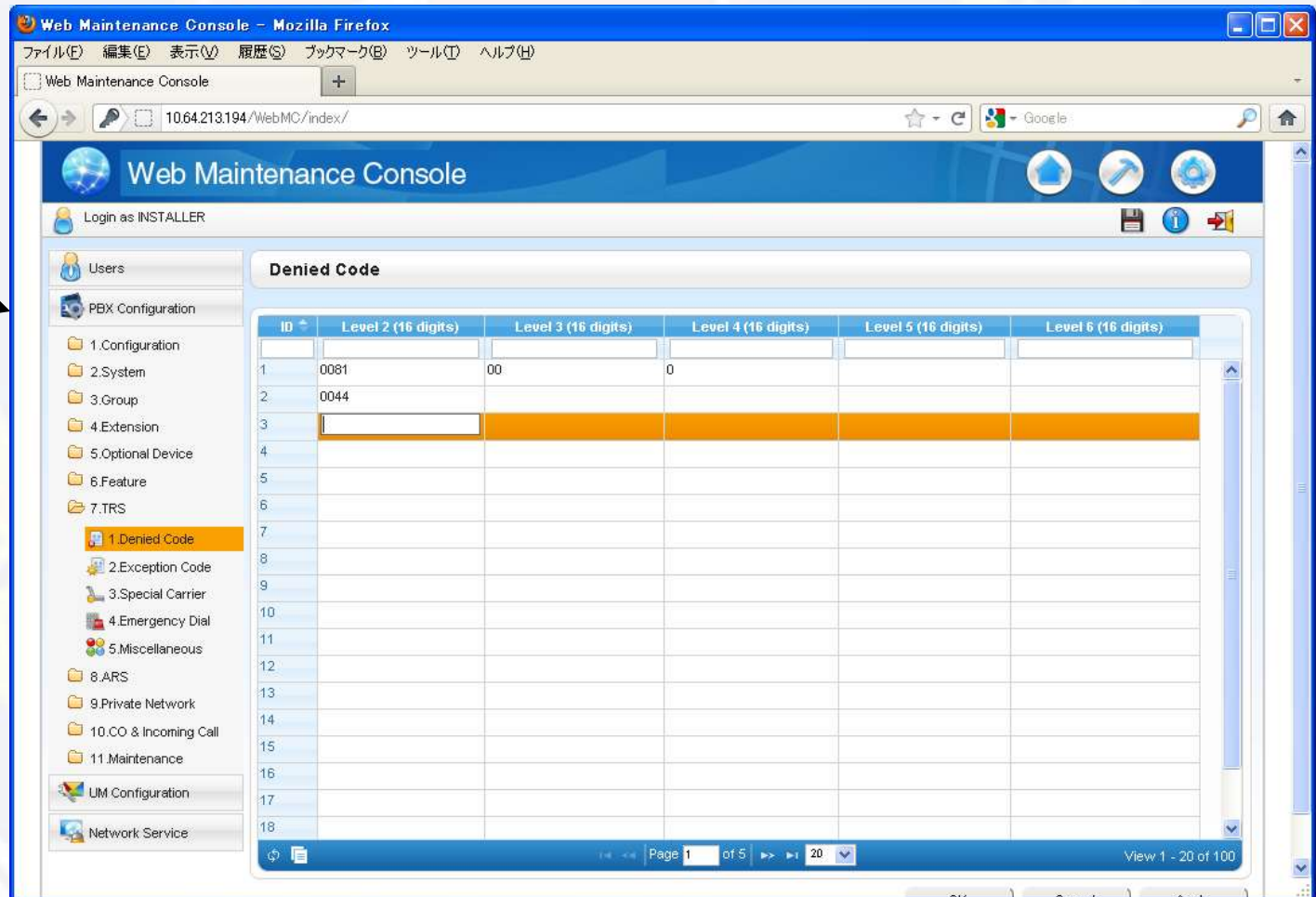
 Setup mode

Programming for PBX features

Same as TDE-NCP !!

Programming for VM features

Same as TVM !!



The screenshot shows the Web Maintenance Console interface in a Mozilla Firefox browser window. The browser address bar shows the URL 10.64.213.194/WebMC/index/. The page title is "Web Maintenance Console". The user is logged in as "INSTALLER". The left sidebar contains a navigation menu with categories: Users, PBX Configuration, and UM Configuration. Under PBX Configuration, the "1. Denied Code" option is selected and highlighted in orange. The main content area displays a table titled "Denied Code" with columns for ID, Level 2 (16 digits), Level 3 (16 digits), Level 4 (16 digits), Level 5 (16 digits), and Level 6 (16 digits). The table contains two rows of data: Row 1 has ID 1, Level 2 0081, Level 3 00, and Level 4 0; Row 2 has ID 2, Level 2 0044, and the rest of the cells are empty. The table has a scrollable vertical bar on the right. At the bottom of the page, there is a pagination control showing "Page 1 of 5" and "View 1 - 20 of 100".

34. Maintenance

Web-MC supports maintenance features also.



Maintenance mode

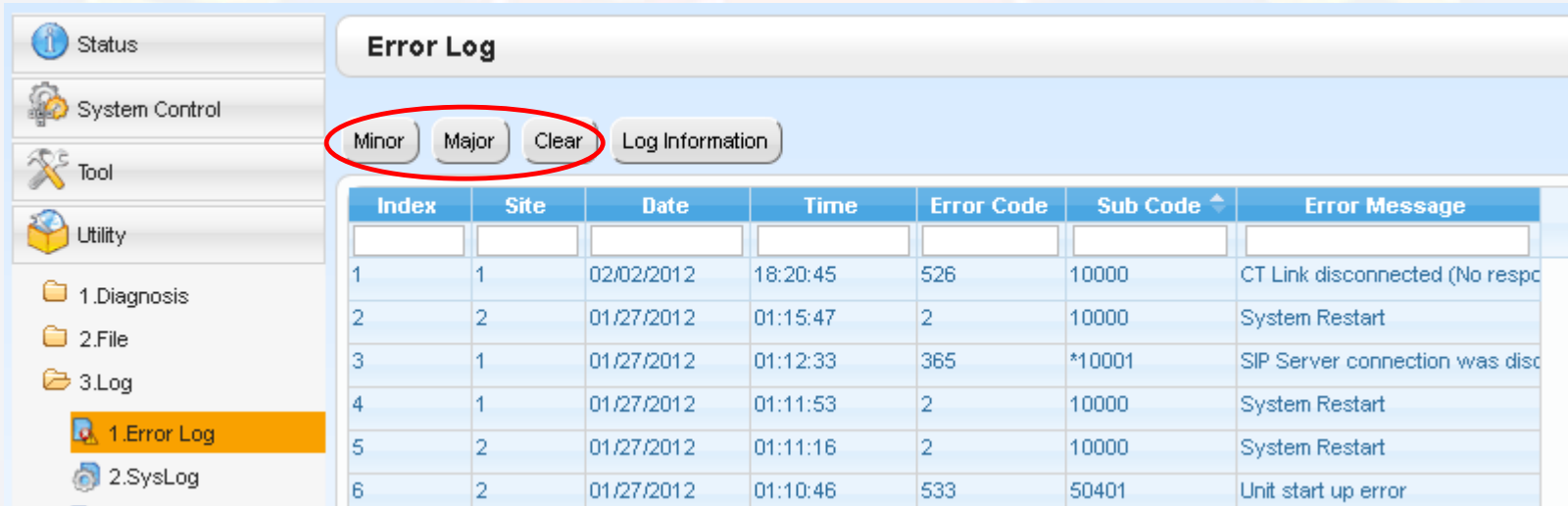
- Status
- System Control
 - 1. Program Update
 - 2. MOH
 - 3. System Reset
 - 4. System Shutdown
- Tool
- Utility

- Status
- System Control
- Tool
 - 1. System Data Backup
 - 3. NDSS Link Data Clear
 - 4. Call Pickup For My Group
 - 5. Extension List View
 - 6. Import
 - 7. Export
 - 8. Screen Customise
 - 9. UM data backup
 - 10. UM data restore
 - 11. UM backup history
 - 12. Contact information
 - 13. UT Option Setting
 - 14. DXDP ALL OUS
 - 15. URL Information
 - 16. Simplified Voice Message
- Utility

- Status
- System Control
- Tool
- Utility
 - 1. Diagnosis
 - 2. File
 - 3. Log
 - 4. Monitor/Trace
 - 5. Report
 - 6. Activation Key Installation
 - 7. Email Notification
 - 8. Command
 - 9. UM - System Prompts Customisation
 - 10. Automatic Two-way Recording
 - 11. UM - System Maintenance
 - 12. CS-Web Connection

35. Error Log

Error log can be conformed and cleared using Web-MC. Status LED becomes green after clearing error log.



The screenshot shows the Web-MC interface for the Error Log. On the left is a navigation menu with categories: Status, System Control, Tool, and Utility. Under Utility, there are folders for 1.Diagnosis, 2.File, and 3.Log, and sub-items for 1.Error Log (highlighted) and 2.SysLog. The main area is titled 'Error Log' and contains buttons for 'Minor', 'Major', 'Clear', and 'Log Information'. The 'Clear' button is circled in red. Below the buttons is a table with the following data:

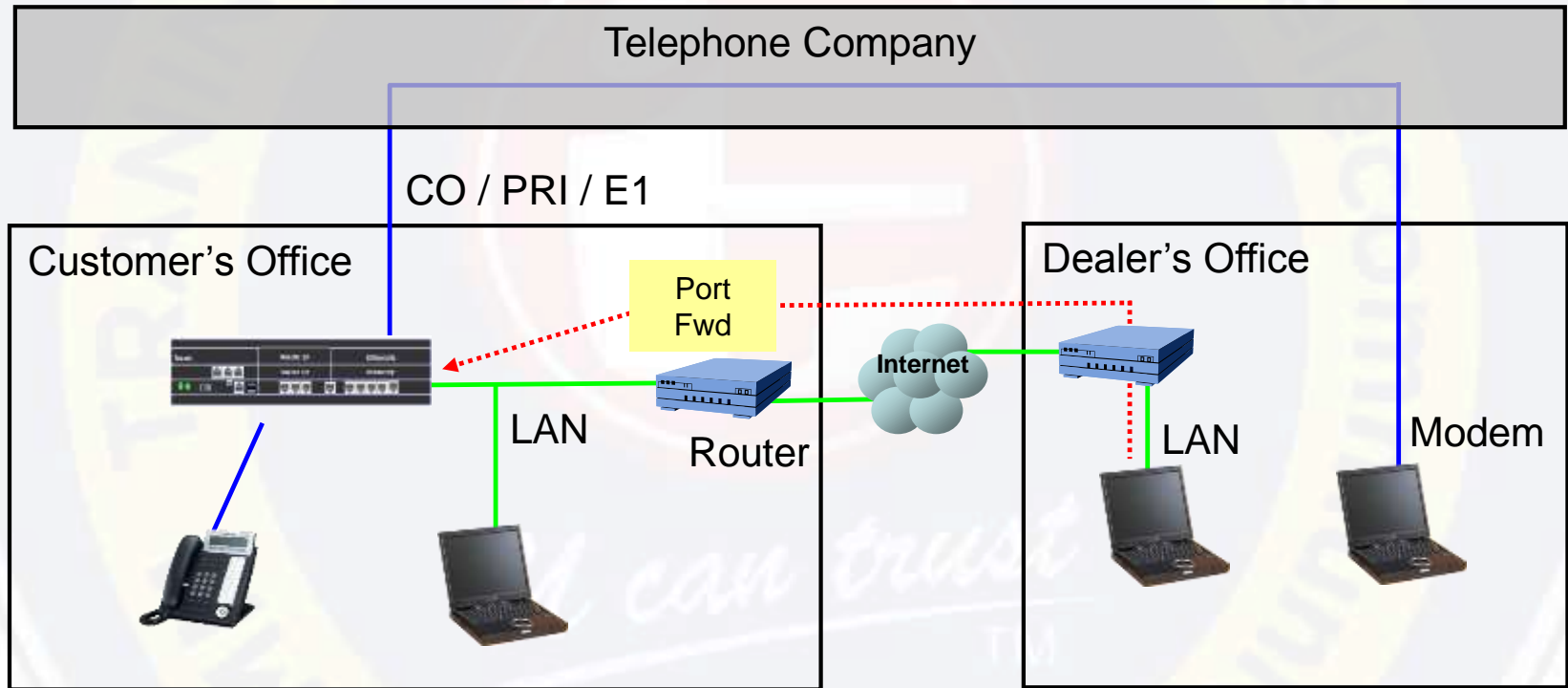
Index	Site	Date	Time	Error Code	Sub Code	Error Message
1	1	02/02/2012	18:20:45	526	10000	CT Link disconnected (No resp
2	2	01/27/2012	01:15:47	2	10000	System Restart
3	1	01/27/2012	01:12:33	365	*10001	SIP Server connection was disc
4	1	01/27/2012	01:11:53	2	10000	System Restart
5	2	01/27/2012	01:11:16	2	10000	System Restart
6	2	01/27/2012	01:10:46	533	50401	Unit start up error

LED



36. Remote Programming

Programming using PC is available through LAN or modem.



Analog modem is available with [KX-TDA0196](#).

ISDN 64k digital modem is available through PRI card of KX-NS PBX without [KX-TDA0196](#).

Port forwarding is required for router to connect through LAN from remote location.
Port number is 8080.

37. Programming Tool

Application (Programming Tool) is required to connect through modem. GUI and operation for programming are same as web programming. Multi-site PBX manager is not supported. Other features are same as Unified PCMC for KX-TDA/TDE/NCP.



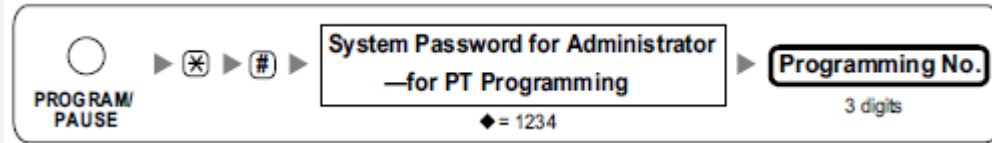


Chapter 4

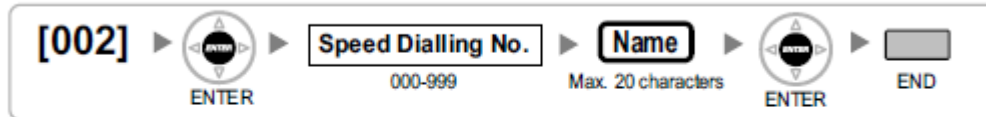
PT Programming

41. Programming using PT

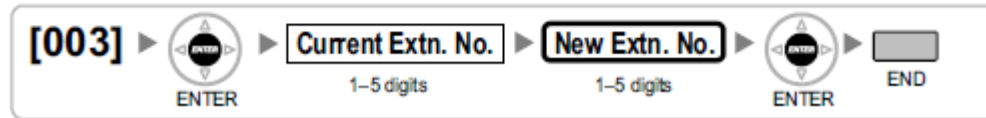
Operation for programming is same as KX-TDA100D.



[002] System Speed Dialling Name



[003] Extension Number



< Available PT >

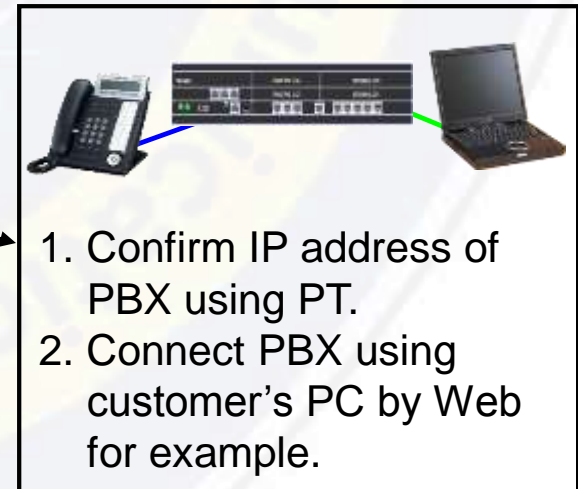
KX-T77xx	N/A
KX-T74xx KX-T75xx	N/A
KX-T76xx KX-DT3xx KX-DT5xx	3 or 6 line LCD Model only
KX-NT3xx KX-NT5xx	

Followings are added newly.

[191] IP Address Reference



[194] UM Auto Configuration



1. Confirm IP address of PBX using PT.
2. Connect PBX using customer's PC by Web for example.



Thank you !

Revision

Date	No. (*)	Change
Oct 15	-	First edition
Dec 17	-	Picture was revised.
Jan 16	11	Picture was revised.
	24-5	Explanation was revised.