## **KX-NS1000 Cellular Phone as Extension**

## Rev1.0 3 Feb., 2012









### Cellular phone can work as extension.

Even when your important customer calls your office phone number and you are out of office, you can answer the call using your cellular phone. Your customer needs to know only your office phone number as one number.

Your sales staff with cellular phone does not need to go to office for meeting.

Telecommuting is also available using cellular phone.



## Chapter

- 1) Overview
- 2) Features
  - 1. One Number Receiving a Call
  - 2. One Number Transferring a Call after Answer
  - 3. One Number Making a Call
  - 4. One Number Receiving a Call from Extension
  - 5. One Number Making a Call to Extension
  - 6. One Number Busy Notification by DSS Key
  - 7. One Number VM Answer when No Answer
  - 8. One Number Max. 128 extensions including 4 Cellular
  - 9. Cellular without phone in office
  - 10. Meeting using Cellular Phone

3) Programming



# Overview

**Panasonic ideas for life** 

### Cellular Phone as Extension

### Activation key : KX-NSE1xx provides one number solution.

When your customer calls your office phone number, both phone in office and your cellular phone can ring at the same time.

- Even after you receive the call using your cellular phone, you can transfer the call to other extension.
- When you call your customer using cellular phone through PBX (DISA), the phone number of your office is informed to your customer instead of the number of your cellular phone.

When your colleague dials your extension number or presses DSS key, both phone in office and your cellular phone can ring at the same time. Even when you are talking using your cellular phone through PBX, DSS key of your extension number becomes red. So other extension can know that your are on the phone now.

So cellular phone can work like SLT phone for basic features such as making a call, receiving a call and transferring a call.



# Features

**Panasonic ideas for life** 

Panasonic 2. Features

ideas for life

### 1. One Number - Receiving a Call

When your customer calls your office phone number, both phone in office and your cellular phone can ring at the same time.



Extension 102 sets call forwarding no answer to cellular phone (080-888-7777) with "keep ringing" mode.



### 2. One Number – Transferring a Call after Answer

When your customer calls your office phone number, both phone in office and your cellular phone can ring at the same time. Even after you receive the call using your cellular phone, you can transfer the call to other extension.



"DTMF-#" from CO works as "Flash key" of SLT. Transfer (Unscreened / Screened / Paging) and Conference are available.

## ≫

## 3. One Number - Making a Call

When you call your customer using cellular phone through PBX (DISA), the phone number of your office is informed to your customer instead of the number of your cellular phone.

DID number can be informed as CLIP for SIP / H.323 / ISDN.

Phone number of the line is informed to cellular from telephone network for analog.



Cellular phone can be recognized as extension (102) automatically based on pre-assigned caller ID (080-888-7777).



### 4. One Number - Receiving a Call from Extension

When your colleague dials your extension number or presses DSS key, both phone in office and your cellular phone can ring at the same time. DID number can be informed to cellular as CLIP for SIP / H.323 / ISDN. Phone number of the line is informed to cellular from telephone network for analog.



Extension 102 sets call forwarding no answer to cellular phone (080-888-7777) with "keep ringing" mode.

>>

### 5. One Number - Making a Call to Extension

You can call your colleague using cellular phone directly (DID) or through DISA.



"102: Mike" is assigned as PBX speed dial name for 0/9-080-888-7777.



## 6. One Number - Busy Notification by DSS Key

Even when you are talking using your cellular phone through PBX, DSS key of your extension number becomes red. So other extension can know that your are on the phone now.

Receiving a call : Cellular phone has to be called with a paired extension.

Making a call : Cellular phone has to call using DISA.



Panasonic 2. Features



ideas for life

### 7. One Number - VM Answer when No Answer

When your cannot answer incoming call, built-in voice mail feature of UM answers the call for you. Left voice message can be sent to PC or cellular phone as attached file of e-mail automatically.



UM (VM) is assigned as destination of intercept routing.

8. One Number – Max. 128 extensions including 4 Cellular

2. Features

Panasonic

ideas for life

Maximum 128 extension phones including 4 cellular phones can be ringed for one incoming call at the same time using ICD group feature.





## 9. Cellular without Phone in Office

Even if remote worker (sales staff or telecommuting worker) does not have phone in office, they also have extension number for their cellular phone.

<Method 1>
Instead of forward no answer for actual extension phone, forward all for
"Virtual PS " is programmed.
In this case, "Busy notification by DSS key" does not work.
Virtual PS = DECT PS hardware is not registered.

<Method 2>

Softphone is installed to PC in remote office. Softphone works as "phone in office" at software point of view.

In this case, "Busy notification by DSS key" can work also.

Fwd "No Answer or Busy" to cellular is recommended instead of Fwd "No Answer" so that call can be forwarded to cellular, even if power of PC is off.

>>

## 10. Meeting using Cellular

Maximum 32 members meeting is available. Maximum 8 people can talk at the same time. Other member can listen only. Conference coordinator can control other member using CA.



Cellular phone user can also coordinate meeting.



// Note for (4) //
Dial 4 = Quick dial
\*32 + Conf Group No. + #

(4) and dial 4

Or "# as end of call" is disabled for SIP trunk. Otherwise "#" is not dialed from SIP trunk. And assign "\*32XX" to dialing plan.

#### Panasonic 2. Features ideas for life



## **Conditions**

Cellular phone can be recognized as extension manually instead of automatic recognition by caller ID of cellular phone.

This also allows busy display of DSS key.

This allows you to send different DID number as CLIP depend on customer.

CLIP number is pre-assigned for each extension.



Busy display of DSS key is available as follows.

- Receiving a call from customer = Available
- Receiving a call from extension = Available
- Calling customer from cellular phone through DISA = Available
- Calling extension from cellular phone through DISA = Available
- Calling from cellular without DISA (\*) = Not Available
  - (\*) For example, cellular calls extension directly using DID.



# Programming

**Panasonic ideas for life** 

### Panasonic ideas for life 3. How to program?

## Cell-Phone Integration

>>

First of all the following setting is needed.

Setup – PBX Configuration – 4.Extension – 1.Wired Extension – 1.Extension Setting - Option9 -> Set "Mobile Extension" to "Enable".



## Panasonic<br/>ideas for life3. How to program?

### One Number – Receiving a Call

>>

Extension 102 sets call forwarding no answer to cellular phone (080-888-7777) with "keep ringing" mode. 1 second is recommended for forward no answer time. Setup – PBX Configuration – 4.Extension – 1.Wired Extension – 1.Extension Setting -FWD/DND -> Set "FWD No Answer Time (S)" to "1", "Keep ring after FWD NA to CO" to "Enable".



## Panasonic<br/>ideas for life3. How to program?

### >>> One Number – Transferring a Call after Answer

DISA (DTMF Receiver) is required to receive DTMF. Setup – PBX Configuration – 5.Optional Device – 1.DISA System – Option 1 – CO-CO with DISA -> Set "FWD / Transfer to Public CO" to "Enable", "Transfer by DTMF #" to "Enable".



## Panasonic<br/>ideas for life3. How to program?

## One Number – Making a Call

>>

Pre-assigned caller ID (080-888-7777) is recognized as extension (102) automatically.

Setup – PBX Configuration – 5.Optional Device – 1.DISA System – Option 1 -> Set "Remote Walking COS through DISA without PIN" to "Enable" and set "System Speed Dial".



### Panasonic ideas for life 3. How to program?

>>

## Cellular without Phone in Office (Virtual PS)

## Instead of forward no answer for actual extension phone, forward all for "Virtual PS" is programmed.



### Panasonic ideas for life 3. How to program?

>>

## Cellular without Phone in Office (Virtual PS)

Setup – PBX Configuration – 4.Extension – 1.Extension Settings – Option 9 -> Set "Mobile Extension" to "Enable".



### Panasonic ideas for life 3. How to program?



### V-SIPEXT setting

1. Port Property - Virtual SIP Extension -> Assign "Password".



Panasonic ideas for life 3. How to program?



### **V-SIPGW** setting

- 1. Port Property Virtual SIP Gateway Main
  - -> Set "Cannel Attribute" to One Basic Channel and One Additional Channel Set "SIP Server IP Address" to "Own PBX IP Address".

Edit Uew Higtory Bookmarks Tools Heb   Meb Maintenance Console Image: Console Image: Console   Image: Instance NS1000 WebMc/index/   Image: Instance NS1000 WebMc/index/   Image: Instance NS1000 WebMc/index/   Image: Instance NS1000 WebMc/index/   Image: Instance Port Property - Virtual SIP Gateway   Image: Instance Port Property - Virtual SIP Gateway   Image: Instance Select Provider   Image: Instance Select Provider   Image: Instance Addronal Astronal Astronal Astronautors   Image: Instance Select Provider   Image: Instance Image: Instance   Image: Instance Select Provider   Image: I	Web Maintenance Cons	ole – Mozilla Firefox					
Web Maintenance Console   1921880201/WebMC/mdex/     Login as INSTALLER   Vetors   Port Property - Virtual SIP Gateway     Petx Configuration   2 Portable Station   3 Option   4 Clock Frintly   NS   3 Option   3 Option   3 Option   4 Clock Frintly   NS   3 Option   3 Option   3 Option   4 Clock Frintly   NS   Additional channel for Skit 31 On 1   3 Option   3 Option   3 Option   4 Clock Frintly   NS   Additional channel for Skit 31 On 1   3 Option   3 Option   Additional channel for Skit 31 On 1   3 Option   3 Option   3 Option   4 Clock Frintly   NS   Additional channel for Skit 31 On 1   3 Option   Soppleneitorial for Skit 31 On 1   3 Option   Soppl	e <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory !	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp					
I 1921680.2011/WebM/Zindex/     NS1000     WebMaintenance Console     Users   Port Property - Virtual SIP Gateway     Users   Port Property - Virtual SIP Gateway      Users   Port Property - Virtual SIP Gateway      Users   Port Property - Virtual SIP Gateway      Users   Port Property - Virtual SIP Gateway      Users   Port Property - Virtual SIP Gateway      Users   Port Provider Mame SIP Server SIP Serve	Web Maintenance Console	+					
NS1000 Web Maintenance Console   Login is NSTALLER   Vers   Port Property - Virtual SIP Gateway   PEX Configuration   Elect Provider   Add Provider   Connection   Connection   Register   Nam   Account   Register   Nam    Account   Register   Nam   Account   Register   Nam   Account   Register   Nam   Account   Register   Nam   Account   Nam   Account   Nam   Account   Nam   Account </th <th>• ) • 192.168.0.201 //</th> <th>WebMC/index/</th> <th></th> <th></th> <th>☆ - C</th> <th>🚼 🗝 Google</th> <th></th>	• ) • 192.168.0.201 //	WebMC/index/			☆ - C	🚼 🗝 Google	
NS1000 Web Maintenance Console     Login as NSTALLER     Users   Port Property - Virtual SIP Gateway      PBX Configuration     1 Lonfiguration     2 Portable Station   3 Additional Channel Attribute   Provider Hame   SIP Server Name   3 Doption   4 Lock Priority   5 DSP Resources   2 System   3 Group   4 Extension   5 Soptional Device   6 Freature   6 Freature   7 Tris   8 Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   NS    Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   NS   Additional channel for Sict 31 Ch 1   <							
Login es INSTALLER     I Login es INSTALLER     Port Property - Virtual SIP Gateway     PBX Configuration     I Lonriguration     I Connection   I Connection   I Connection   I Lonriguration   I Lonriguration   I Lonriguration   I Lonriguration   I Lonriguration   I Lonriguration   I Connection   I Connection   I Lonriguration	🔛 NS1000	Web Mainter	ance Console				(2)
Users       Port Property - Virtual SIP Gateway         PBX Configuration       Select Provider       Add Provider         I Configuration       Select Provider       Add Provider         I Configuration       Connection       Channel Attribute       Provider Name       SIP Server Name       SIP Server SiP Server SiP Server Name       SIP Server SiP Server SiP Server Name       SIP Server SiP Server SiP Server SiP Server SiP Server Name       SIP Server SiP Server SiP Server SiP Server SiP Server SiP Server Name       SIP Server Server Sip Server Server SiP Server Server SiP Server Server S	Login as INSTALLER					NS1000	
Users       Port Property - Virtual SIP Gateway         PBX Configuration       Select Provider       Add Provider         I Configuration       Select Provider       Add Provider         I Configuration       Select Provider       Register       IAT       Option       Calling Party       Called Party       Voice FAX       RTPRTCP       T3       >         I Configuration       Connection       Channel Attribute       Provider Name       SIP Server Name       <							
PBX Configuration   I 1. Configuration   I 1. Stot   I 2. System   I 2. System   I 2. System   I 3. Group   I 4. Extension   I S. Gottonal Device   I 5. Feature   I 1. Stot   Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1   I S. Additional channel for Stot 31 Ch 1 <t< td=""><td>Users</td><td>Port Property - Vir</td><td>ual SIP Gateway</td><td></td><td></td><td></td><td></td></t<>	Users	Port Property - Vir	ual SIP Gateway				
Select Provider       Add Provider         I 1.Configuration       Image: Add Provider         Image: Intervention of the sectors	PBX Configuration						
Not       Account       Register       HAT       Option       Calling Party       Called Party       Voice FAX       RTP.RTCP       T.38       >         # 2 Portable Station       Image: Station       S	1 Configuration	Select Provider Add Pro-	vider				
Image: Provide Station       Connection       Channel Attribute       Provider Hame (20 characters)       SIP Server (100 characters)       SIP Server (P Address)       SiP Server P Address	= 1.Slot	« Main Account	Register NAT Optio	on Calling Party	Called Party Voice/F	AX RTP/RTCP	T.38 »
Soption       Connection       Channel Attribute       Provider Name (20 characters) ←       SIP Server IP Address       SIP Server IP Address       SIP Server Port Name (100 characters) ←       SIP Server IP Address       SIP Server Port Name (100 characters) ←       SIP Server IP Address       SIP Server Port Name (100 characters) ←       SIP Server IP Address       Port Name (100 characters) ←       SIP Server IP Address       Port Name Port Name (100 characters) ←       Port Name IP Address       InformatiP Address <t< td=""><td>a.Portable Station</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	a.Portable Station						
	E 3.Option	Connection	Channel Attribute	Provider Name (20 characters)	SIP Server Name (100 characters) 🗢	SIP Server	SIP Serve Port Numb
SDSP Resources       NS       Basic channel       SPTrunk loopback       192.168.0.201       35060         2 System       NS       Additional channel for Slot 31 Ch 1         5060         3 Group       NS       Additional channel for Slot 31 Ch 1         5060         4 Extension       NS       Additional channel for Slot 31 Ch 1         5060         5 Soptional Device       NS       Additional channel for Slot 31 Ch 1         5060         6 Feature       NS       Additional channel for Slot 31 Ch 1         5060         7 TRS       NS       Additional channel for Slot 31 Ch 1         5060         9 Shrivate Network       NS       Additional channel for Slot 31 Ch 1         5060         9 Shrivate Network       NS       Additional channel for Slot 31 Ch 1         5060         9 Shrivate Network       NS       Additional channel for Slot 31 Ch 1         5060         10.CO & Incoming Call       Fault       Not Used         5060       5060         11 Maintenance       Fault       Not Used          5060       5060	a 4.Clock Priority	· · · · · · · · · · · · · · · · · · ·	ALL 💌				
2 System NS Additional channel for Slot 31 Ch 1 5060   3 Group NS Additional channel for Slot 31 Ch 1 5060   4 Extension NS Additional channel for Slot 31 Ch 1 5060   5 Soptional Device NS Additional channel for Slot 31 Ch 1 5060   6 Feature NS Additional channel for Slot 31 Ch 1 5060   7 T/RS NS Additional channel for Slot 31 Ch 1 5060   9 SPrivate Network NS Additional channel for Slot 31 Ch 1 5060   9 SPrivate Network NS Additional channel for Slot 31 Ch 1 5060   10.CO & Incoming Call SIPTrunk_SIPExt loop 192.168.0.201 5060   9 Uhd Configuration Fault Not Used 5060   9 Network Service Ist Stat Stat Stat Stat Stat Stat Stat St	5.DSP Resources	INS	Basic channel	SIPTrunk loopback		192.168.0.201	35060
S.Group INS Additional channel for Slot 31 Ch 1 So60   4 Extension INS Additional channel for Slot 31 Ch 1 So60   5 Soptional Device INS Additional channel for Slot 31 Ch 1 So60   6 Feature INS Additional channel for Slot 31 Ch 1 So60   7 T/RS INS Additional channel for Slot 31 Ch 1 So60   9 SPrivate Network INS Additional channel for Slot 31 Ch 1 So60   9 SPrivate Network INS Additional channel for Slot 31 Ch 1 So60   10.CO & Incoming Call INS Additional channel for Slot 31 Ch 9 So60   11 Maintenance Fault Not Used So60   Fault Not Used So60 So60   Wetwork Service INS Instructure So60	2.System	INS	Additional channel for Slot 31 Ch 1				5060
<ul> <li>4 Extension</li> <li>NS</li> <li>Additional channel for Slot 31 Ch 1</li> <li>Sofon</li> &lt;</ul>	Group 3.Group	INS	Additional channel for Slot 31 Ch 1				5060
S Optimal Device       INS       Additional channel for Slot 31 Ch 1       Sofe       Sofe         S Optimal Device       INS       Additional channel for Slot 31 Ch 1       Sofe       Sofe         S Fature       INS       Additional channel for Slot 31 Ch 1       Sofe       Sofe         7.TRS       INS       Additional channel for Slot 31 Ch 1       Sofe       Sofe         9 ArXs       INS       Additional channel for Slot 31 Ch 1       Sofe       Sofe         9 Private Network       INS       Additional channel for Slot 31 Ch 9       Sofe       Sofe         10.00 & Incoming Call       INS       Additional channel for Slot 31 Ch 9       Sofe       Sofe         11.1 Maintenance       Fault       Not Used       Sofe       Sofe       Sofe         Whork Service       Network Service       Instrument       Sofe       Sofe       Sofe	4 Extension	INS	Additional channel for Slot 31 Ch 1				5060
INS       Additional channel for Slot 31 Ch 1       5060         6. Feature       INS       Additional channel for Slot 31 Ch 1       5060         7. TRS       INS       Additional channel for Slot 31 Ch 1       5060         8. ARS       INS       Additional channel for Slot 31 Ch 1       5060         9. Private Network       INS       Basic channel       SIPTrunk_SIPExt loop       182.168.0.201       5060         10. CO & Incoming Call       INS       Additional channel for Slot 31 Ch 9       5060       5060         11. Maintenance       Faut       Not Used       6       5060         I. Mc Onfiguration       Faut       Not Used       5060         Network Service       Image: state	5 Ontional Device	INS	Additional channel for Slot 31 Ch 1				5060
NS     Additional channel for Slot 31 Ch 1     5060       7.TRS     NS     Additional channel for Slot 31 Ch 1     5060       9.Private Network     NS     Basic channel     SIPTrunk_SIPExt loop     192.168.0.201     5060       10.c0 & Incoming Call     INS     Additional channel for Slot 31 Ch 9     5060     5060       11.Maintenance     Fault     Not Used     5060     5060       I.Mc Onfiguration     Fault     Not Used     5060       Network Service     Image: Strate S	6 Feature	INS	Additional channel for Slot 31 Ch 1				5060
8 ARS       INS       6 difficient des Site 34 Ch 4       5060         8 ARS       INS       Basic channel       SIPTrunk_SIPExt loop       192.168.0.201       5060         9 Private Network       INS       Additional channel for Sito 31 Ch 9       5060       5060         10.00 & Incoming Call       Fault       Not Used       5060       5060         111 Maintenance       Fault       Not Used       5060       5060         2 UM Configuration       Fault       Not Used       5060       5060         Network Service       Image: Service       I		INS	Additional channel for Slot 31 Ch 1				5060
INS         Basic channel         SIPTrunk_SIPExt loop         192.168.0.201         5060           9.Private Network         INS         Additional channel for Slot 31 Ch 9         5060         5060           10.c0.8 Incoming Call         Fault         Not Used         5060         5060           11.1 Maintenance         Fault         Not Used         5060         5060           4.UM Configuration         Fault         Not Used         5060         5060           Network Service         View 1. Not Used         5060         5060         5060	a ARS	INS	Additional abannal for Slot 24 Ch 4				5060
Instructer version in a springer version in	0.Art3	INS	Basic channel	SIPTrunk_SIPExt loop		192.168.0.201	5060
11. Maintenance         Fault         Not Used         5060           11. Maintenance         Fault         Not Used         5060           1. Mortiguration         Fault         Not Used         5060           Network Service         Fault         Not Used         5060	40 CO 2 Incoming Coll	INS	Additional channel for Slot 31 Ch 9				5060
Fault     Not Used     5060       UM Configuration     Fault     Not Used     5060       Network Service     Image: Configuration of 1 boost 1 and 1	11 Meintenence	Fault	Not Used				5060
Full         Not Used         5060           Network Service         Image: Transmission of the service         Image: Transmission of the service		Fault	Not Used				5060
Network Service	UM Configuration	Fault	Not Used				5060
φ 📮 👘 👘 👘 View 1-15 of 1	A Network Service	<			Ш		>
		¢ 🔳	I≰ -	< Page 1 of 1 🔛	FI 20 💌		View 1 - 16 of 1
						K Cancel	Apply

Panasonic ideas for life 3. How to program?

### Meeting using Cellular : SIP Trunk – SIP Ext Loop

### **V-SIPGW** setting

- 2. Port Property Virtual SIP Gateway Account
  - -> Assign "User Name", "Authentication ID" and "Authentication Password".
    - User Name & ID = Extension Number of SIP extension
    - Password = Password of SIP extension



### Panasonic ideas for life 3. How to program?

## Meeting using Cellular

### **Quick Dial setting**

>>

### Setup – PBX Configuration – 6.Numbering Plan – 2.Quick Dial

-> Set "Dial" to "4" and set "Phone Number" to " \*321#"(1 = Conference Group Number).



### Panasonic ideas for life 3. How to program?

## Meeting using Cellular

### **Dialing Plan setting**

 $\gg$ 

Setup – PBX Configuration – 3.Group – 1.Trunk Group – 4.Dialling Plan -> Assign "Leading Number" to " \*32XX ".



### Panasonic ideas for life 3. How to program?

## Meeting using Cellular

### **Dialing Plan setting**

>>

Setup – PBX Configuration – 5.Optional Device – 1.DISA System – Option1 -> Set "Return to DISA Top Menu by DTMF "\*" " to " Disable".



# Thank you ! The END

**Panasonic ideas for life**