# Panasonic





# Smart Hybrid PBX **KX-NS300** Sales Guide



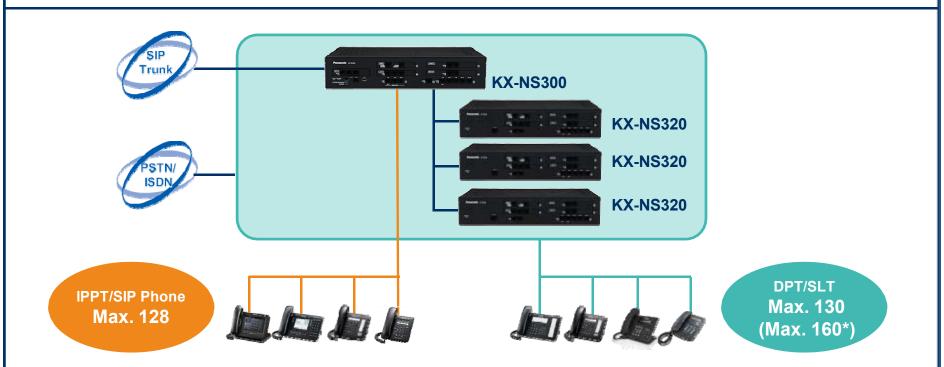
# **One Package Platform for Your Business**

The KX-NS300 is a Smart Hybrid PBX suitable for small to medium sized offices. It enables you to provide various solutions with its built-in functions.



# **Smart Hybrid System**

The KX-NS300 has sufficient capacity for both legacy and IP ports, and an activation key or expansion cabinet can be used to easily expand the system according to customer needs.



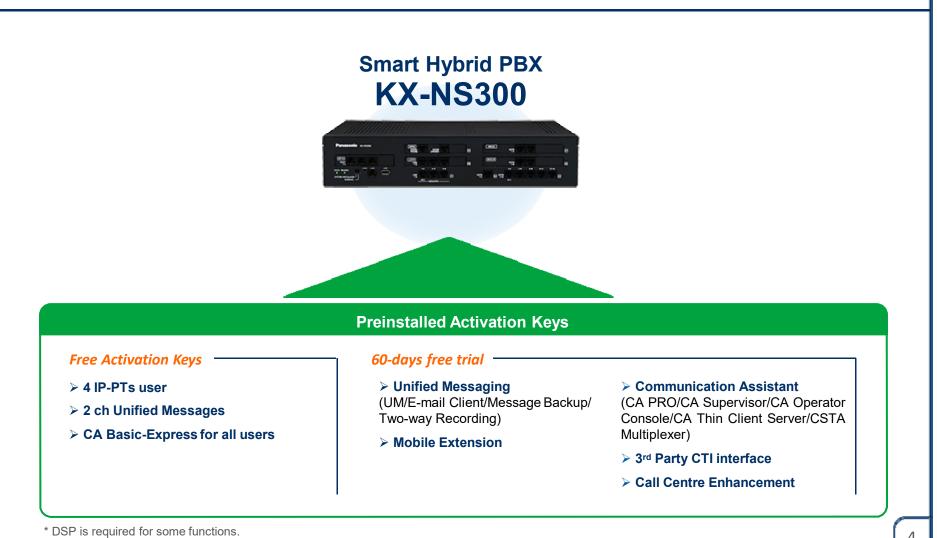
#### Maximum Trunks and Extensions

Types	Preinstalled	KX-NS300	With 1	With 2	With 3
			KX-NS320	KX-NS320	KX-NS320
Trunks	6 ch	36 ch	66 ch	96 ch	126 ch
Extensions (DXDP*)	18	34 (40)	66 (80)	98 (120)	130 (160)
Trunks	N/A	64 ch	64 ch	64 ch	64 ch
Extensions	N/A	128	128	128	128
	Trunks Extensions (DXDP*) Trunks	Trunks 6 ch   Extensions (DXDP*) 18   Trunks N/A	Trunks     6 ch     36 ch       Extensions (DXDP*)     18     34 (40)       Trunks     N/A     64 ch	Trunks     6 ch     36 ch     66 ch       Extensions (DXDP*)     18     34 (40)     66 (80)       Trunks     N/A     64 ch     64 ch	Trunks     6 ch     36 ch     66 ch     96 ch       Extensions (DXDP*)     18     34 (40)     66 (80)     98 (120)       Trunks     N/A     64 ch     64 ch     64 ch

\* When Digital XDP is used.

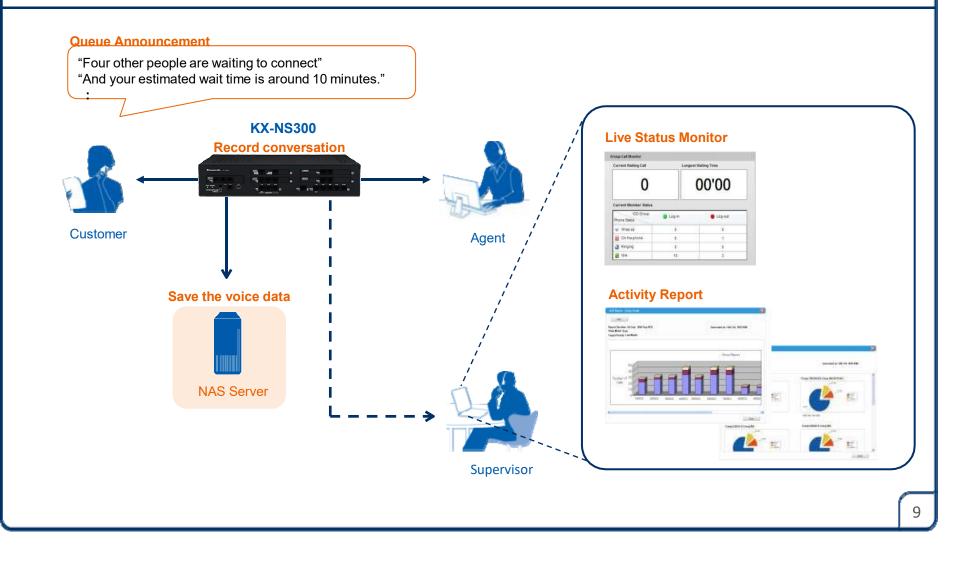
# **Preinstalled Activation Keys**

The following type and number of activation keys are preinstalled or come with a 60-days free trial on the mother board.



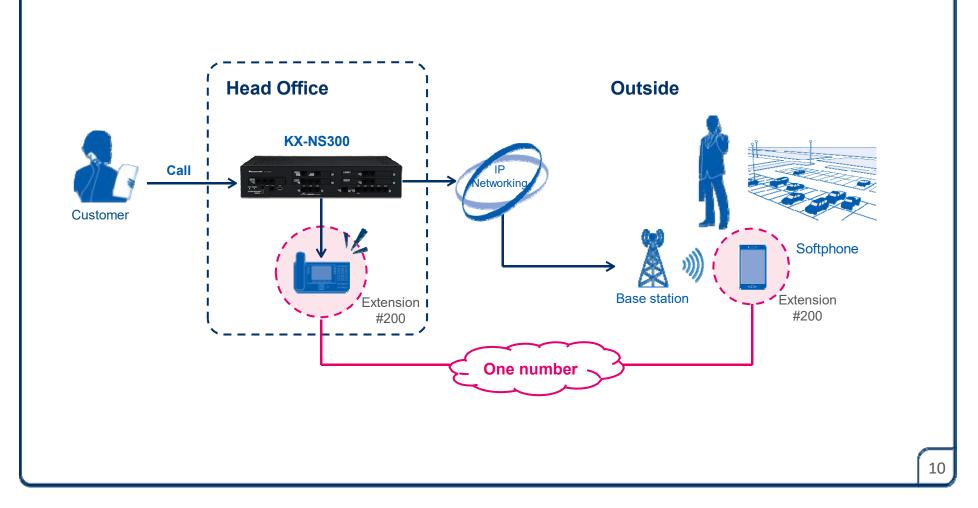
# **Call Centre Solution**

The KX-NS300 is designed to be used in call centre environments. Its built-in applications support the basic needs of supervisors at call centres, such as Queue Announcement, Live Status Monitor, Activity Report, Automatic Conversation Recording, and NAS (Network Attached Storage).



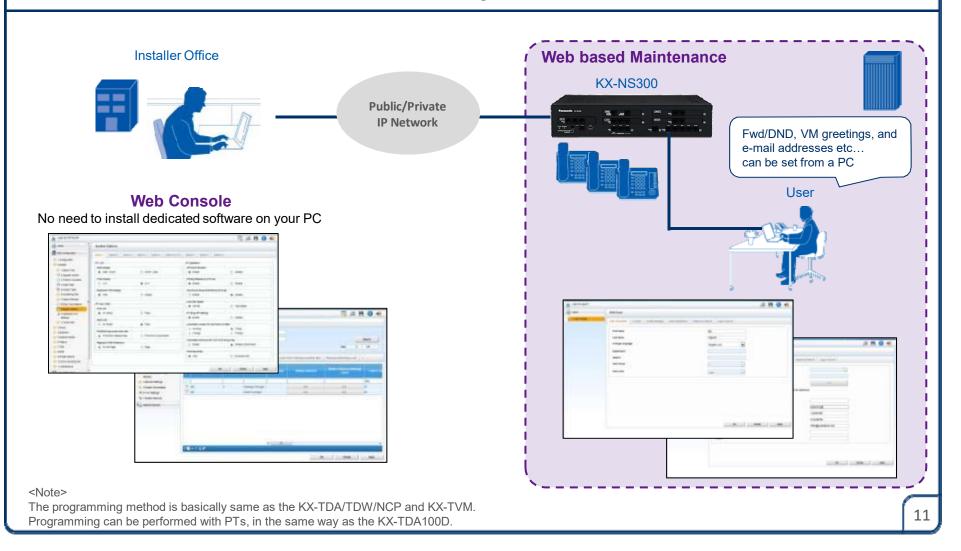
# **One Numbered Extension**

Up to two extensions can be assigned the same extension number. For example, calls to an extension in the office can be received simultaneously on a softphone on a smartphone. Calls can also be switched between paired phones with a simple operation.



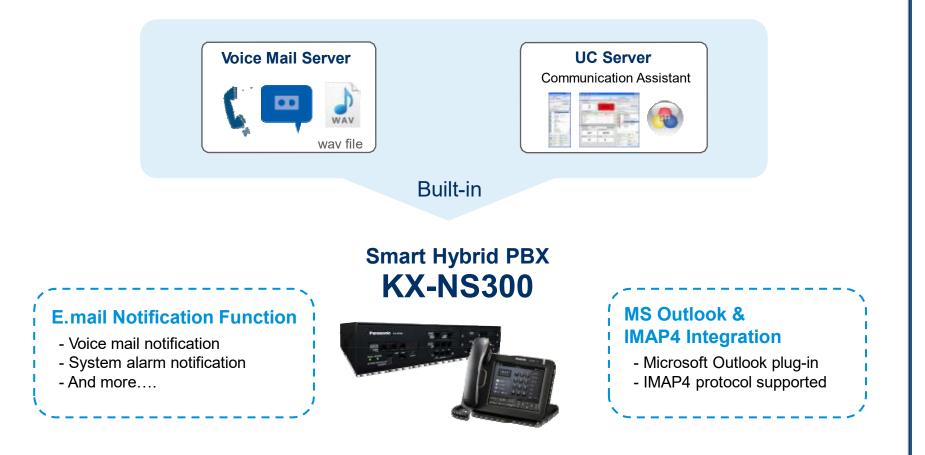
# **Simplified Maintenance**

The installer can easily program everything related to functions such as PBX and VM by web based console, because the KX-NS300 comes with a built-in web server. Programming can also be performed from remote sites. Users can also use a web based console to configure terminals and the VM mailbox.



# Built-in Voice Mail/UC Server - Unified Communication

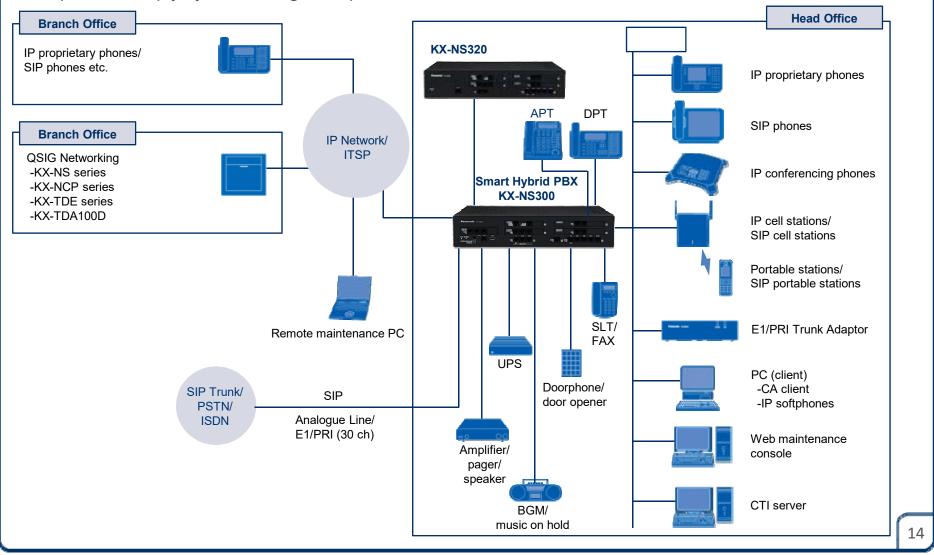
The KX-NS300 has a built-in messaging system that provides voice mail to subscribers. The Unified Messaging system can also provide voice guidance to outside callers, either directing them to their desired destination or to the mailbox of a subscriber, where they can leave a voice message.



# Introduction

# **System Connection Diagram**

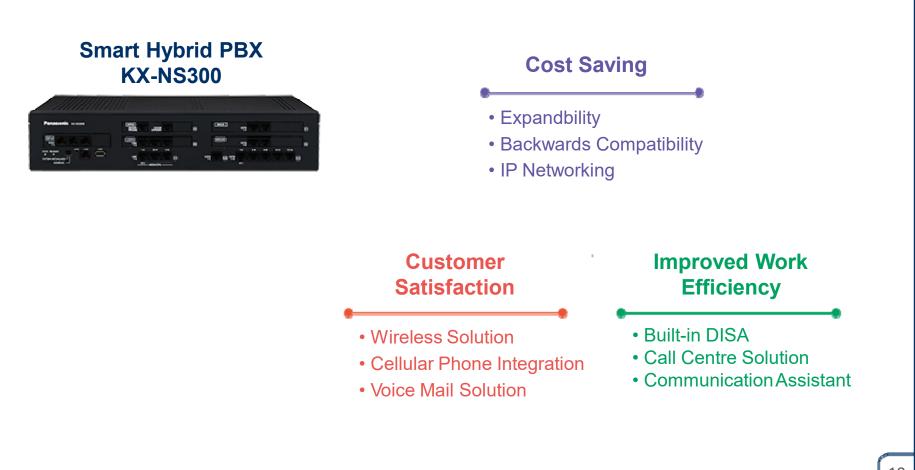
Existing equipment from Panasonic and trunks can continue to be used, and the legacy capacity can easily be expanded simply by connecting an expansion cabinet.

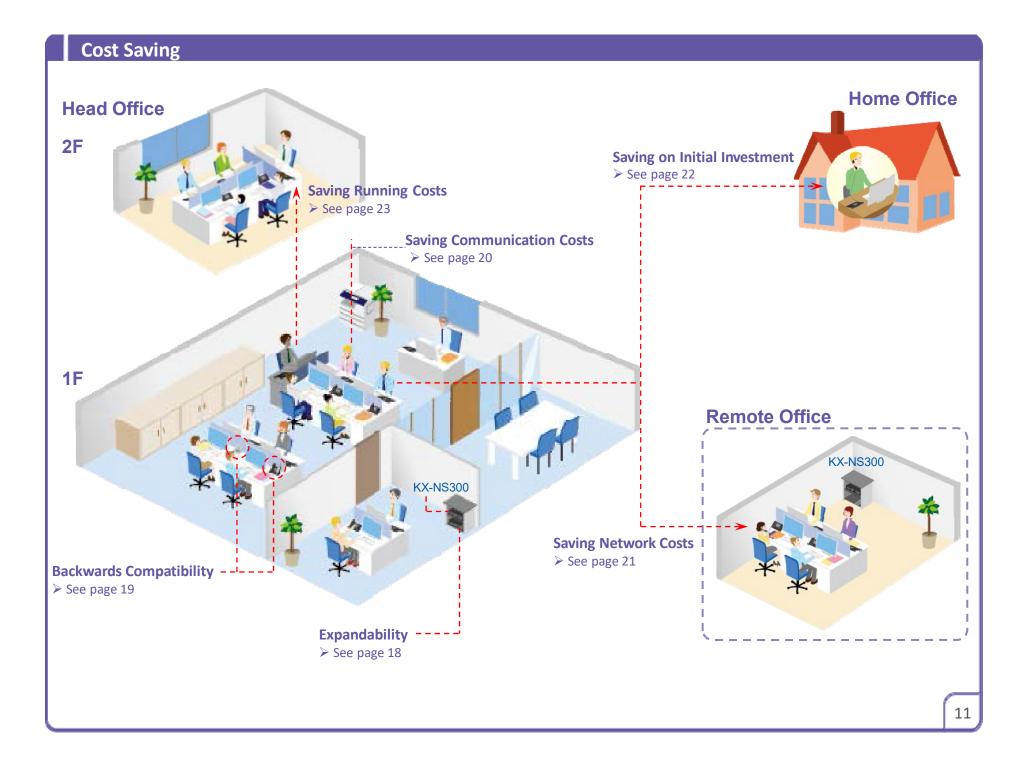


# **Selling Points**

# Why the KX-NS300?

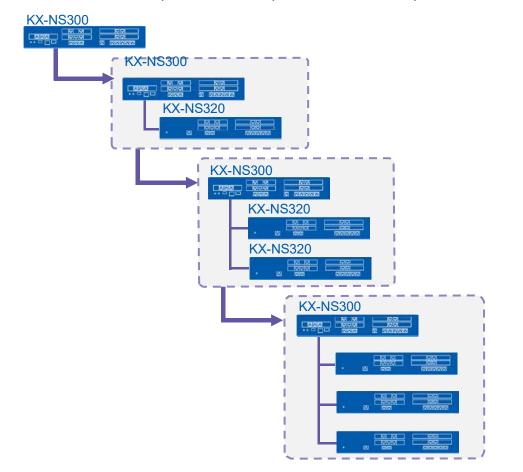
Support for various features enhances business productivity. The KX-NS300 offers a Unified Communication System and it is suitable for small to medium sized businesses.





# **Expandability**

The KX-NS300 is expandable with optional cards and expansion cabinets.



#### **Features and Benefits**

You do not need to discard the KX-NS300 to increase capacity in the future.

Connecting an expansion cabinet is like connecting the KX-TDA600 and KX-TDA620.

#### **Recommended for:**

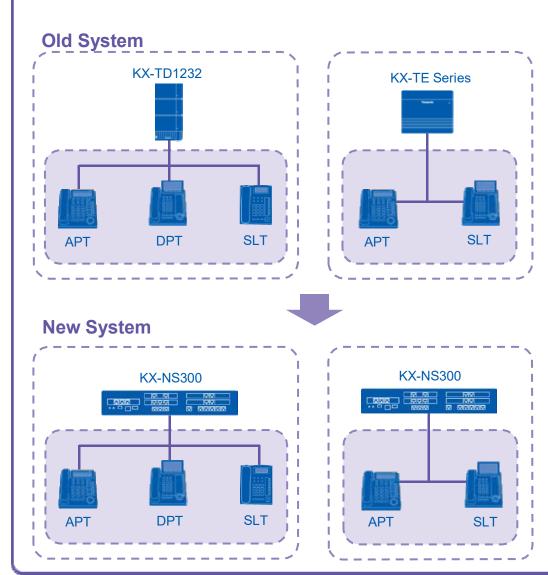
Growing companies

Maximum	Trunks	and	Extensions	
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	Types	Preinstalled	KX-NS300	With 1	With 2	With 3
				KX-NS320	KX-NS320	KX-NS320
Legacy	Trunks	6 ch	36 ch	66 ch	96 ch	126 ch
	Extensions (DXDP*)	18	34 (40)	66 (80)	98 (120)	130 (160)

# **Backwards Compatibility**

Existing DPTs, APTs and SLTs from Panasonic and Trunk can continue to be used, enabling a system to be replaced at a low cost without wasting resources.



#### **Features and Benefits**

▶ Low initial investment costs because the only cost involved is that for purchasing the system.

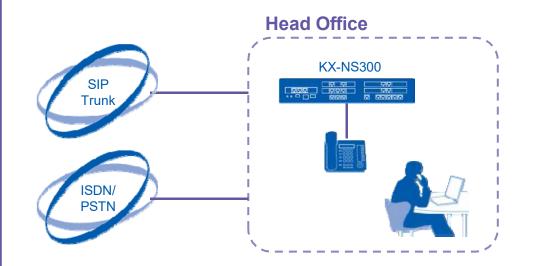
Continue to use an existing KX-T74xx/KX-T75xx.

#### **Recommended for:**

- Growing companies
- Companies considering replacing their PBX

# IP Networking -Saving Communication Costs-

The adequate IP capacity of the KX-NS300 enables you to combine both IP and legacy trunks according to your needs, to construct systems that are flexible and cost effective.



#### **Features and Benefits**

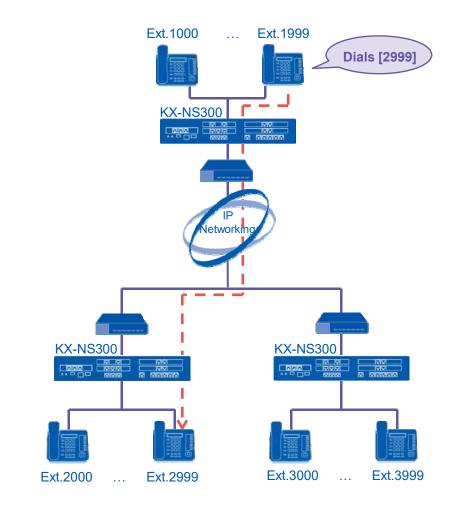
Constructing a hybrid system that combines both legacy and IP lines to further reduce costs.

#### **Recommended for:**

Companies using an IP/ISDN/PSTN network system.

# IP Networking -Saving Network Costs-

VoIP allows you to talk with your remote offices anywhere in the world without telephone charges using a private IP network.



#### Features and Benefits

Save on call costs.

▶ The PBX extension functions can be used across multiple offices.

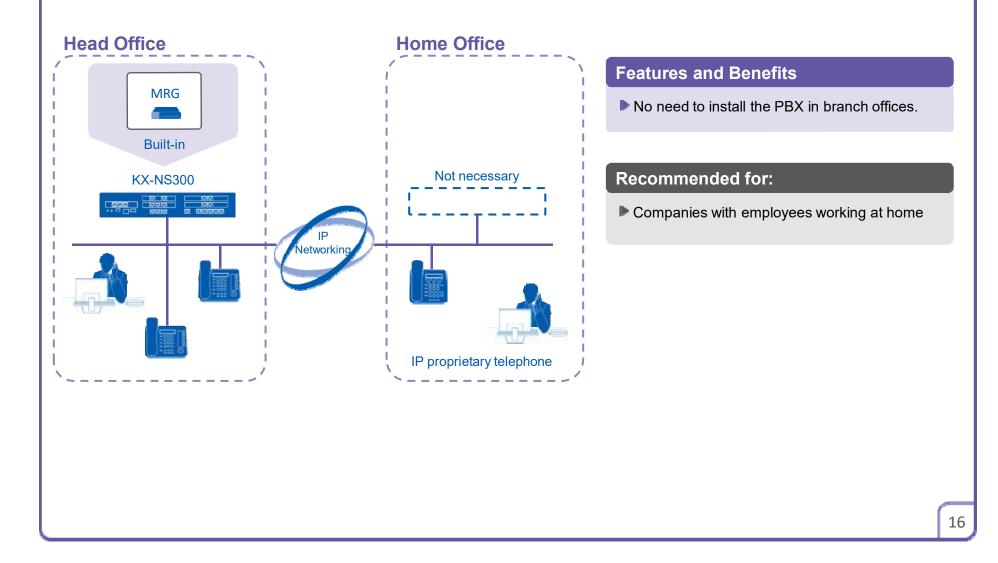
#### **Recommended for:**

Companies which have branches.

Companies using an IP network system.

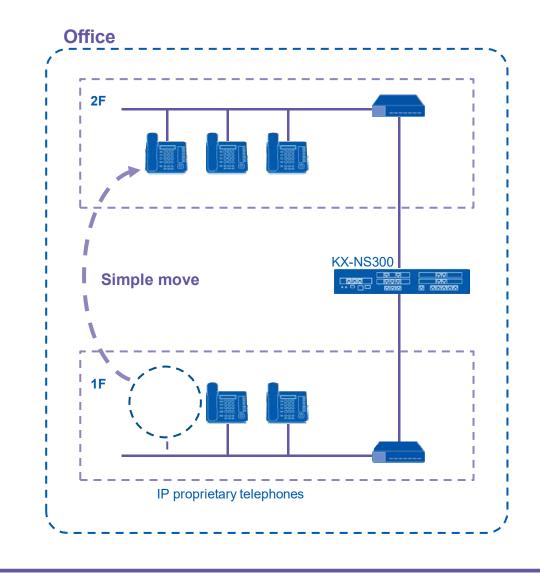
# IP Networking -Saving on Initial Investment-

IP phones can be installed at a remote office without a PBX via an IP network. A VPN is not required. (Built-in Media Relay GW)



## IP Networking -Saving Running Costs-

By using IP phones as extensions, there is no need to change the settings of the PBX each time the office layout is changed.



#### **Features and Benefits**

No need to change the PBX settings when phones are moved to another place.

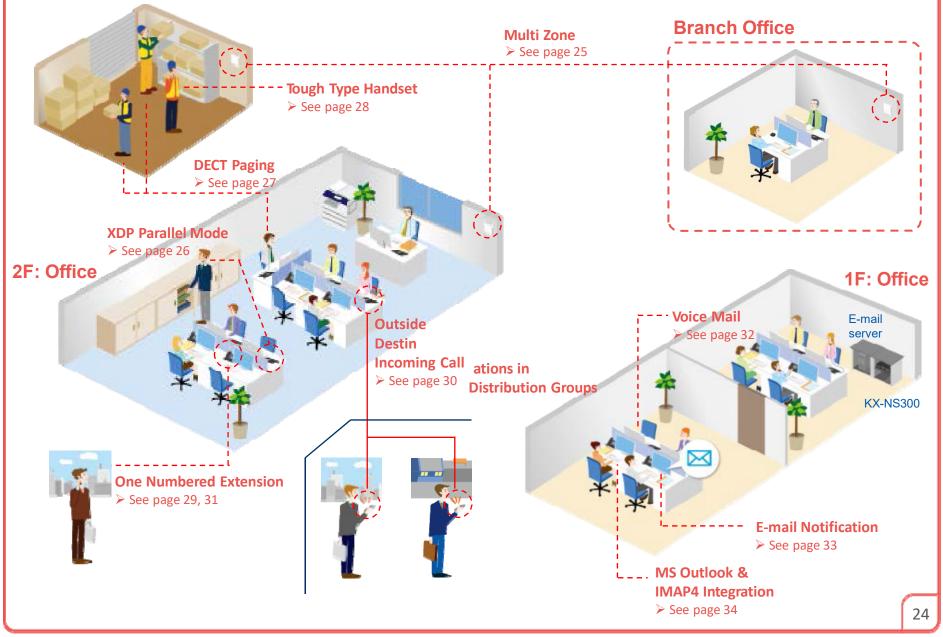
#### Recommended for:

Companies with a need to change their office layout on occasion.

Companies which have an LAN network system.

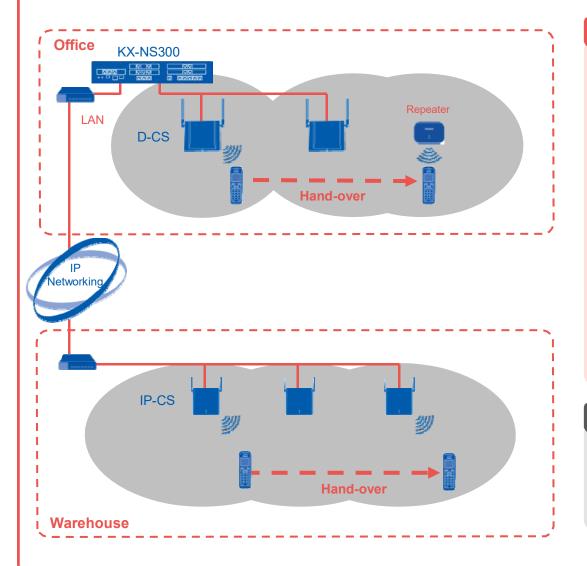
Growing companies

#### **3F: Warehouse**



## Wireless Solution - Multi Zone-

You can receive customer calls wherever you are in the company. Automatic hand-over allows smooth conversations on the move.



#### **Features and Benefits**

On-site employees: efficient because it is not necessary to return to the office to make a call.

Call receptionists: less trouble because the person to transfer the call to can be reached anywhere

Customers: improved customer satisfaction with less customer waiting because calls can be quickly transferred to the wireless handset of the person in charge.

Repeater Use: Call zone expansion can be enabled at a low cost because it is not necessary to wire extra cell stations to the PBX.

Wireless solutions can be easily installed at remote sites using an IP network.

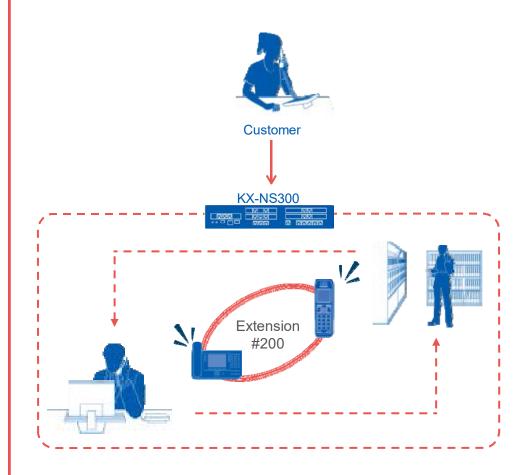
#### **Recommended for:**

Dedicated employees stationed for receiving phone calls

Employees often away from their desks

# Wireless Solution -XDP Parallel Mode-

Both a proprietary phone on the user's desk and a portable station can be called simultaneously using a single extension number.



#### **Features and Benefits**

Calls can be switched between desk phones and portable stations with a simple operation during conversations.

Switch from DECT simply by picking up the handset of your desk phone when you return to your seat.

Switch to DECT simply by pressing a button on the portable station when you leave your seat.

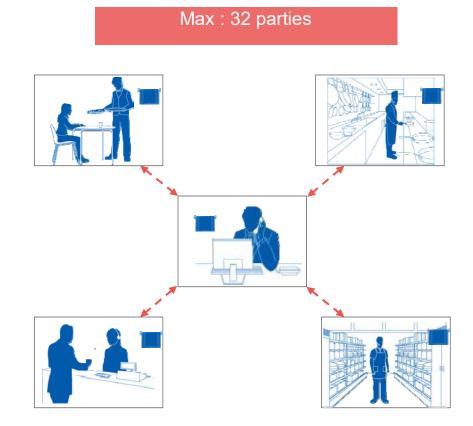
#### **Recommended for:**

Employees often going back and forth from their desk to make calls

For executive rooms and reception corners

# Wireless Solution - DECT Paging-

Paging can be performed between a maximum of 32 DECT wireless extensions. You can give directions to staff around the premises. This enables customers to be quickly responded to.



#### **Features and Benefits**

- Conversations between staff can be shared.
- Multiple people can be called at the same time.
- Contact made anywhere within the coverage area.

#### **Recommended for:**

▶ Hotel, healthcare, or retail customers, etc. that require speedy sharing of information to share instructions with the relevant parties at the same time.

Companies with relevant parties in different locations.

## Wireless Solution - Tough Type Handset-

Dust resistance and water resistance for use in locations with high amounts of dust and humidity (IP65 Compliant). This enables customer calls to be received in damp or dusty locations without concern.



#### **Features and Benefits**

In humid or dusty environments, repair costs can be reduced compared to non-resistant models.

Water resistance IP5: Water resistance, protection against splashed water.

Dust resistance IP6: Dust resistance, no invasion of dust.

### Recommended for:

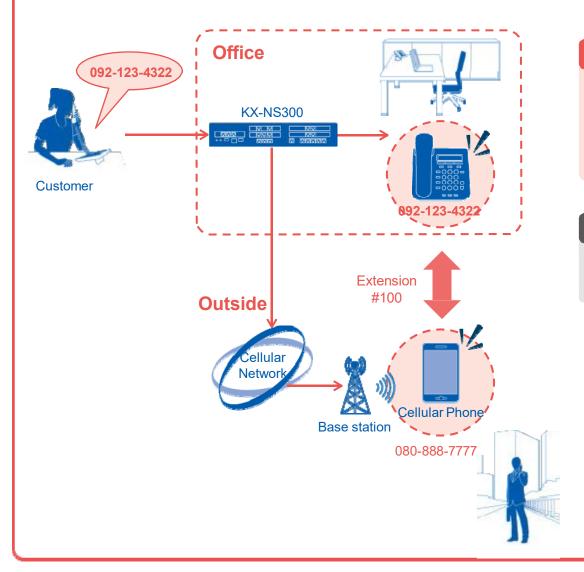
- Environments with warehouses and garages
- Locations near kitchens, baths, etc.





# **Cellular Phone Integration** -Receive a Call-

When your customer calls your office phone number, both your phone at the office and your cellular phone can ring at the same time. You can receive customer calls both inside and outside the company.



#### Features and Benefits

You only need to inform the customer of your office phone number.

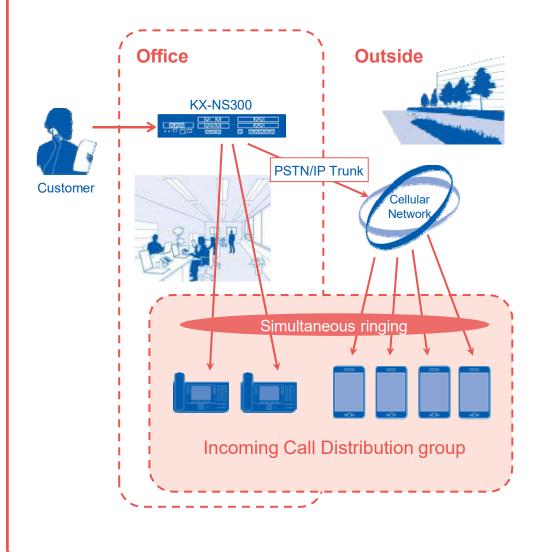
Calls can be received with both a cellular network or IP network.

#### **Recommended for:**

Businesspeople that work both inside and outside the company.

## **Cellular Phone Integration** -Outside Destinations in Incoming Call Distribution Groups-

Up to four cellular phones can be assigned as members of an Incoming Call Distribution (ICD) group, and receive calls to the group. Users who are not busy can quickly respond to customer calls.



#### **Features and Benefits**

When a customer calls, both extensions and a registered cellular phone can be made to ring, enabling the call to be received with either phone.

▶ Up to four cellular phones can be registered to an ICD group with other wired extensions.

#### **Recommended for:**

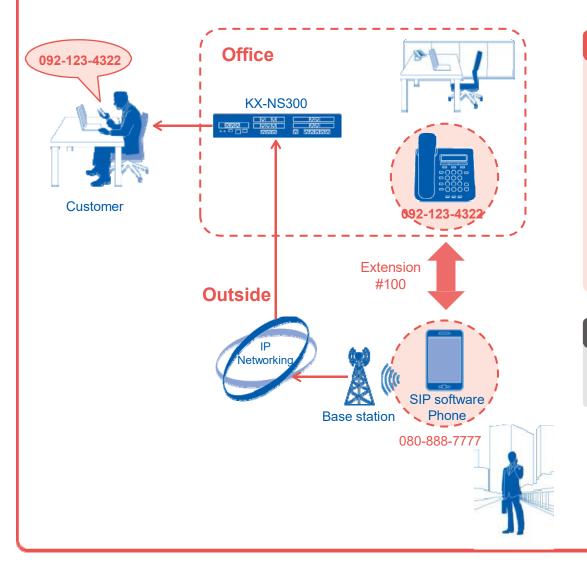
Companies with not many people available to answer the phone

Companies with many employees working outside of the office

# Cellular Phone Integration -Make a Call-

#### **Smart Remote Extension**

You can install IP telephones in remote locations, such as the outside, without a special router. And up to two IP extensions can be assigned the same extension number. (One Numbered Extension)



#### **Features and Benefits**

Extensions can be configured remotely and easily.

▶ You can use smartphones as extensions.

▶ Use an SIP software phone to call customers when you are away from the office without any additional fees.

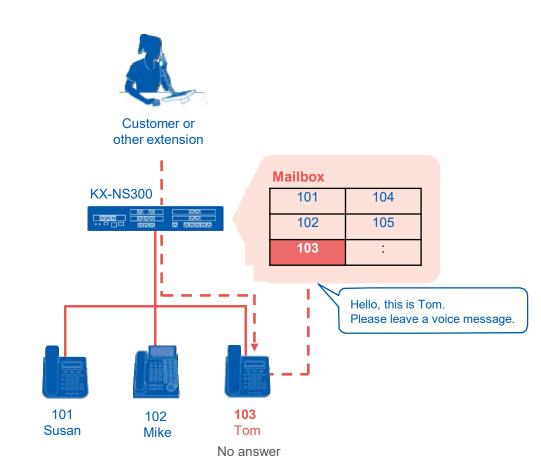
▶ The customer is notified of your office phone number instead of the number of your cellular phone.

#### Recommended for:

Businesspeople that work both inside and outside the company.

# Voice Mail Solution -Voice Mail-

Customers can leave voice mail if they call when you are away.



#### **Features and Benefits**

Record a maximum of 24 channels at the same time.

Record up to 400 hours.

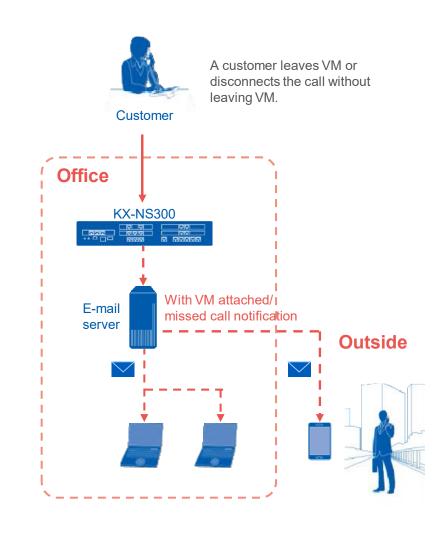
#### Recommended for:

Companies which get calls outside of business hours.

Employees who work away from the phone or out of the office.

## Voice Mail Solution -E-mail Notification-

The KX-NS300 sends an e-mail to the corresponding user when they have new messages. Missed calls without a voice message also can be e-mailed. This enables you to contact customers quickly.



#### **Features and Benefits**

▶ The notification contains information regarding the sender of the message, the length of the message, the number of messages, and a callback number.

#### **Recommended for:**

Companies which get calls outside of business hours.

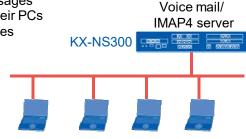
Employees who work away from the phone or out of the office.

# Voice Mail Solution -MS Outlook & IMAP4 Integration-

The KX-NS300 works as a voice IMAP4 server, so users can access the content of their mailboxes using a common e-mail client which supports the IMAP4 protocol. With the Microsoft Outlook plug-in, users can access the content of their mailboxes through Microsoft Outlook in the same way as they do for e-mail.

#### With IMAP integration, users can do the following:

- Play back voice messages
- Save voice data to their PCs
- Delete voice messages

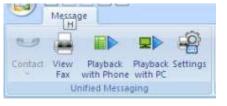


Common email application supporting IMAP4

#### With the Outlook plug-in, users can do the following:

- Play back voice messages
- Record and send voice messages
- Forward and reply to messages
- Call back the sender of a message
- Export voice message data
- Attach voice messages to other e-mail messages





#### Features and Benefits

Users can easily listen to and transfer voice messages.

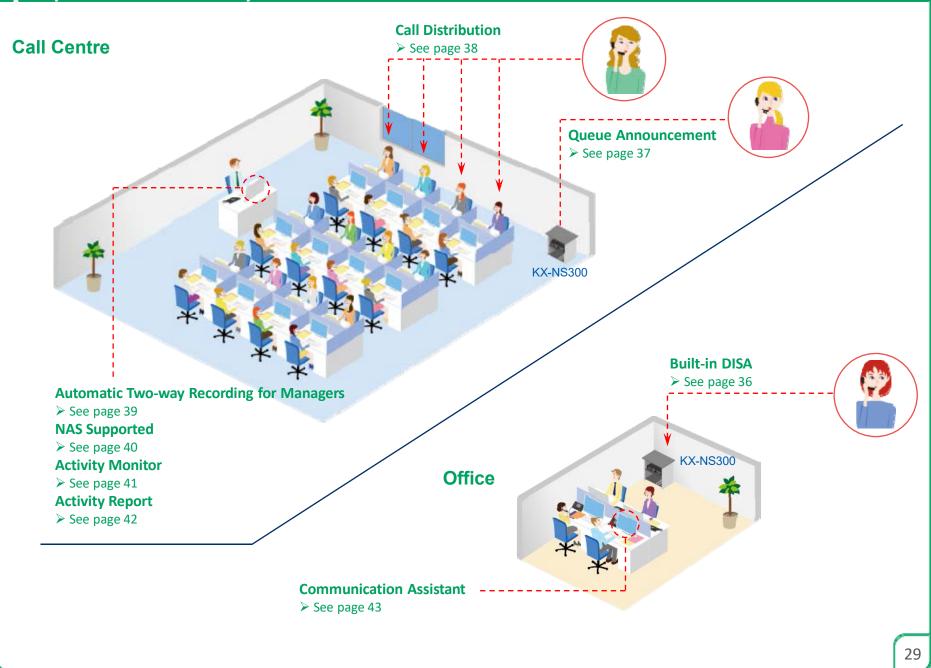
▶ A UC environment that includes voice messages, e-mail, an SNS, and a scheduler can be constructed with Outlook alone.

#### Recommended for:

Companies that require information to be shared between agents

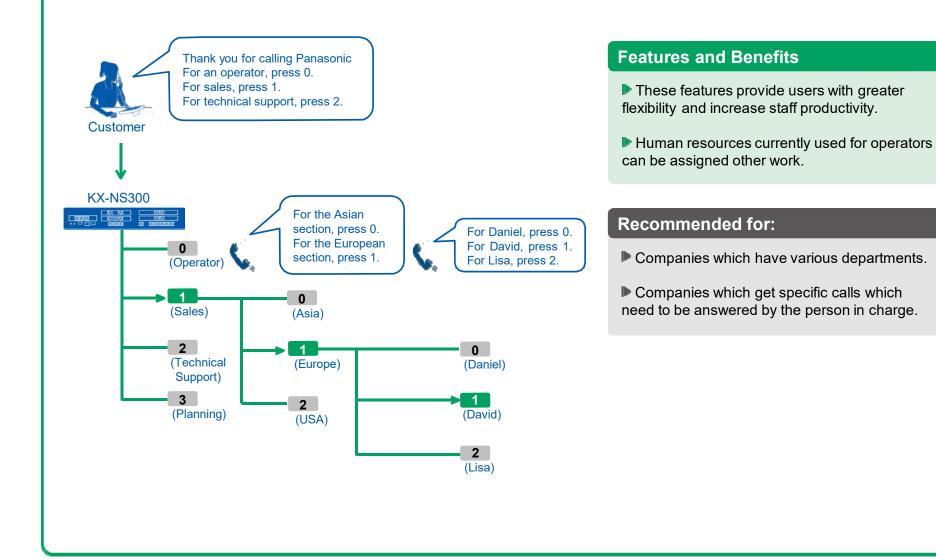
Companies using Outlook

Companies that want to construct an efficient office environment that integrates various communication methods



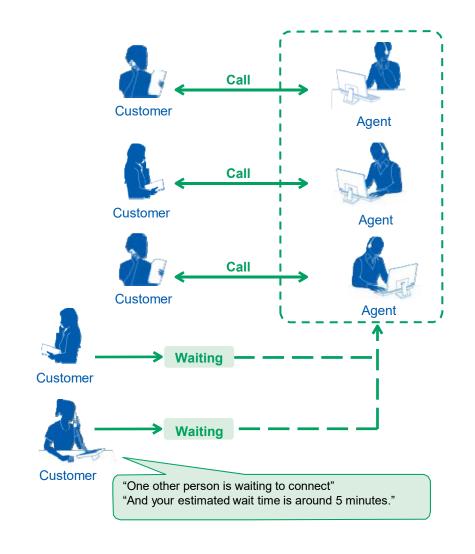
# **Built-in DISA**

Transfer customer calls without an operator.



# Call Centre Solution -Queue Announcement-

The caller hears automatic voice guidance, enabling them to recognize their position in the call waiting queue. They can decide whether to stay in the queue or leave a message and hang up.



#### **Features and Benefits**

Customers can be notified of estimated waiting times.

Customers can choose to leave a message or wait, according to their circumstances.

#### Recommended for:

Companies with not enough agents for the number of customer queries they receive

Companies that receive many customer queries and have not been able to respond to them all

## Call Centre Solution - Call Distribution-

**UCD (Uniform Call Distribution)** 

Ring the **next** extension

KX-NS300

<A>

Busv

<B>

<C>

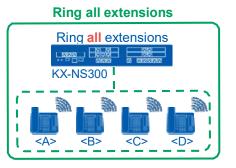
**Overflow Extension** 

| <D>

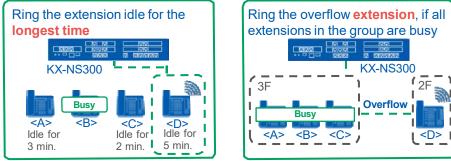
2F

<D>

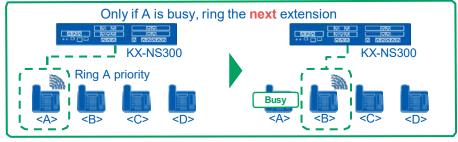
The KX-NS500 provides a variety of call distribution options.



#### **ACD (Automatic Call Distribution)**



#### **Priority Hunting**



Programmed Order:  $A \Rightarrow B \Rightarrow C \Rightarrow D$  (except with "Ring all extensions")

#### **Features and Benefits**

Various types of call distribution enables customer waiting time and stress to be reduced.

For example, when a call comes in to a busy line or an unattended phone, the system can distribute it to another extension, a voice mail system, a home or mobile telephone, or other pre-programmed destinations.

#### **Recommended for:**

Companies which want to perform efficient call operations without installation of a special and expensive call centre system

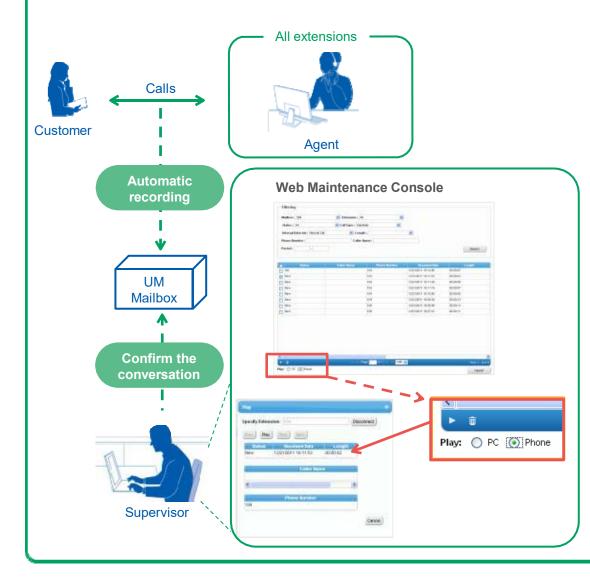
#### Login / Logout

Allows agents to log into a ring group with an ID number. All calls received by the agent are displayed on the report until the agent has logged out.



# Call Centre Solution - Automatic Two-way Recording for Managers-

Calls to and from all extensions can be automatically recorded to a mailbox.



#### **Features and Benefits**

Extensions can be assigned to a supervisor.

Supervisors can listen to the recorded conversation through the Web Maintenance Console.

Recorded data can be played back anytime the supervisor requires.

Recorded data can be used to understand problems with agents, and then instruct those agents to improve customer service.

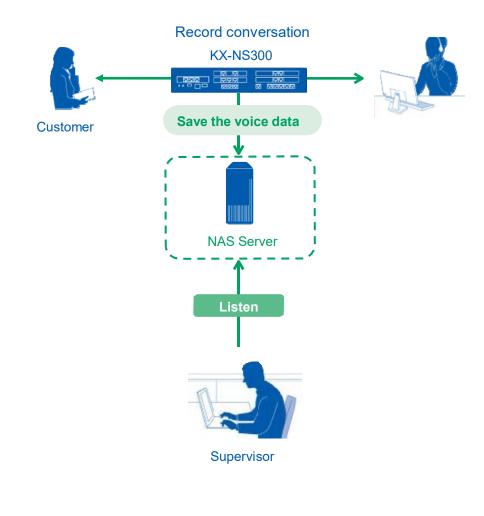
#### **Recommended for:**

Companies that want to educate employees

Companies receiving increasing numbers of complaints from customers

## Call Centre Solution -NAS Supported-

Since the KX-NS300 supports connecting with NAS (Network Attached Storage), it can make a backup of voice data to NAS to enable supervisors to listen to the saved data when required.



#### **Features and Benefits**

Supervisors can use the backup data to understand problems or opportunities relating to customer service.

#### **Recommended for:**

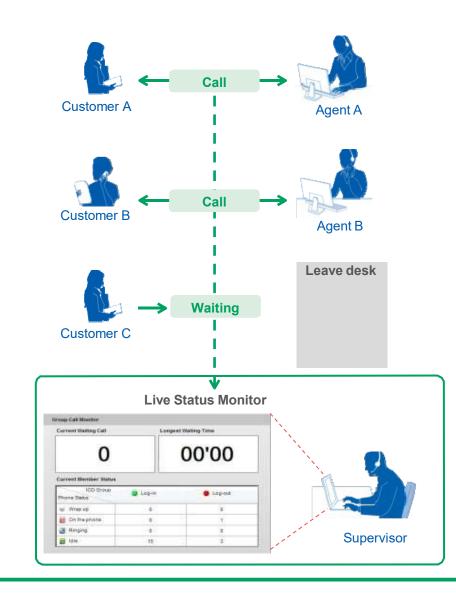
Companies that often have the need to listen to the content of conversations again

Companies that want to improve the customer handling of agents

Companies that want to share information between agents

## Call Centre Solution - Activity Monitor-

The call centre supervisor can monitor the status of each agent and extension group.



#### **Features and Benefits**

Since the call status can be monitored in real time, customer waiting times can be understood, and calls can be transferred to other agents or handled by the supervisor, etc., to reduce customer waiting time and stress.

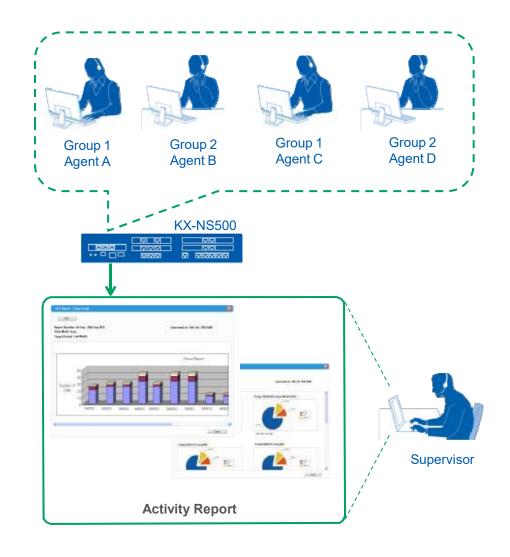
#### **Recommended for:**

Companies that want to perform operations efficiently and in real time

Companies that want to discover what problems they have

## Call Centre Solution - Activity Report-

The call centre supervisor is also provided a variety of reports for studying the activity of the KX-NS300.



#### **Features and Benefits**

Reports can be made by agent and also by group.

Since reports are provided in various formats, they can help analysis the call status.

Call data for up to 300,000 calls can be stored.

#### **Recommended for:**

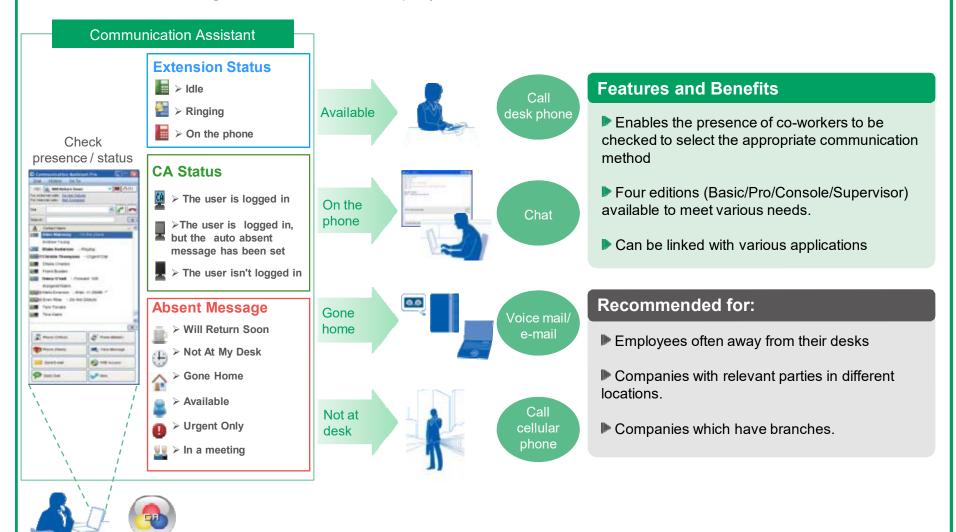
Companies that want to discover/analyze current problems

Companies that want to perform continuous analysis to improve customer satisfaction

### **Improved Work Efficiency**

## **Communication Assistant**

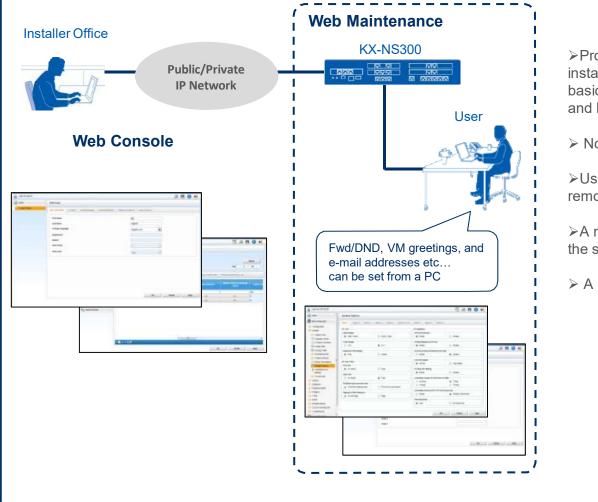
Communication Assistant (CA) productivity software is a highly intuitive PC based application that enables you to change the contact method according to the status of the other party.



## **Selling Points**

## Simplified Maintenance - Web Maintenance-

The features described on previous pages can be programmed with a Web based console via an IP network. Phones and the VM mailbox can also be customised by users via the Web.



> Programming is easy for experienced Panasonic installers because the programming method is basically the same as the KX-TDA, KX-TDE, KX-NCP and KX-TVM.

> No need to install dedicated software on your PC.

>Use an IP network to perform programming from remote sites.

>A maximum of 1 installer can modify system data at the same time.

> A maximum of 32 users can access at the same time.

## Appendix Specifications

## **KX-NS300 Capacity**

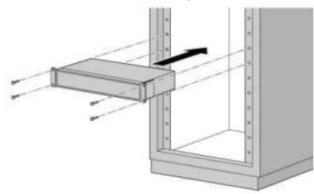
### Maximum Trunks

	Preinstalled	KX-NS300	With 1 KX-NS320	With 2 KX-NS320	With 3 KX-NS320
Total Number of Trunks (Legacy+IP)	6 ch	100 ch	130 ch	160 ch	190 ch
Legacy	6 ch	36 ch	66 ch	96 ch	126 ch
PRI30	N/A	30 ch	60 ch	90 ch	120 ch
E1	N/A	30 ch	60 ch	90 ch	120 ch
Analogue	6 lines	12 lines	24 lines	36 lines	48 lines
IP	N/A	64 ch	64 ch	64 ch	64 ch
H.323	N/A	32 ch	32 ch	32 ch	32 ch
SIP	N/A	64 ch	64 ch	64 ch	64 ch

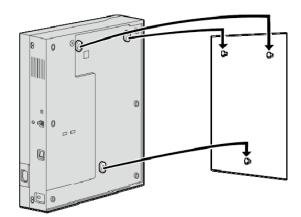
## **Hardware Condition**

ltem	Specification
Temperature	0 °C to 40 °C
Humidity	10 % to 90 % (non-condensing)
Power Input	100 V AC to 130 V AC: 2.2 A/200 V AC to 240 V AC: 1.3 A; 50 Hz/60 Hz
Power Consumption (when fully mounted)	110 W
External Backup Battery	External battery port is supported.
Memory Backup Duration	7 years
Air-cooling method	FAN
Dimension	430 mm (W) x 88 mm (H) x 367 mm (D)
Weight (when fully mounted)	Under 4.5 kg

### **19-inch Rack Mounting**

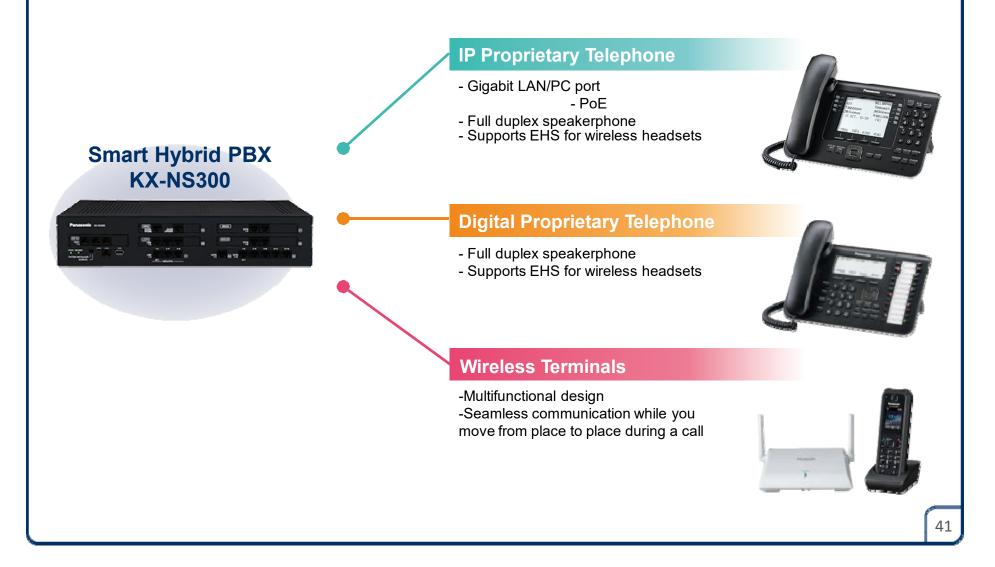


### Wall Mounting



## **Overview**

Panasonic's full terminal line up from high end to low end provide various solutions to various types of businesses.



# **IP Phone 'KX-NT5xx Series'**

#### Lineup

### For Executives/Supervisors

#### **KX-NT560**

- 4.4 inch Backlight LCD Display
- 4 x 8 Self Labelling, Flexible CO Buttons
- 2 Giga Ethernet Ports (10/100/1000M)
- PoE
- Full Duplex Speakerphone
- Electronic Hook Switch
- Built-in Bluetooth Module
- Eco Mode

### **For Standard Users**

#### **KX-NT551**

- 1-Line Backlight LCD Display
- 8 Flexible CO Buttons
- 2 Ethernet Ports (10/100/1000M)
- Full Duplex Speakerphone
- PoE
- Eco Mode





### For Simple Users

### KX-NT511A/KX-NT511P

- 1-Line LCD Display
- 3 Flexible CO Buttons
- PoE (KX-NT511P only)
- 2 Ethernet Ports (10M/100M)
- AC Adaptor Included (KX-NT511A only)
- Full Duplex Speakerphone
- Eco Mode



A white model is available for each phone

#### KX-NT556/KX-NT553 with KX-NT505

- 6-Line Backlight LCD Display
- (KX-NT553: 3-Line)
- -12 x 3 Self Labelling, Flexible CO Buttons (KX-NT553: 12 x 2)
- 2 Ethernet Ports (10/100/1000M)
- PoE
- Full Duplex Speakerphone
- Electronic Hook Switch
- Eco Mode
- Options: KX-NT505 (Add on 48 key module)



#### KX-NT546/KX-NT543

- 6-Line Backlight LCD Display (KX-NT543: 3-Line)
- 24 Flexible CO Buttons
- 2 Ethernet Ports (10/100M)
- PoE
- Speakerphone
- Electronic Hook Switch
- Eco Mode



# **IP Phone 'KX-NT5xx Series'**

**Features** 

### **High Audio Quality**

#### Full duplex speakerphone (KX-NT560/KX-NT55x Series/KX-NT511)

The speakerphone supports "full duplex", enabling both parties to speak at the same time without their voice getting cut out.

### Supports the G.722 codec

G.722 codec provides calls with high quality and reduced stress.

### Advanced speaker design

Speakers enhance the characteristics of low frequencies and contain a high performance D-class audio amp.

### Larger acoustic chamber

The acoustic chamber reduces echo and vibration from the speaker.

### **Hands Free Communication**

Built-in Bluetooth (KX-NT560 only)

Bluetooth for wireless calls using a supported headset.

### Electronic Hook Switch (EHS) supported (Except for KX-NT551/KX-NT511)

By connecting an EHS headset, you can perform wireless communication.



Acoustic chamber (acoustic box)



# **IP Phone 'KX-NT5xx Series'**

### **High Speed Communication**

Supports Gigabit Ethernet (KX-NT560/KX-NT55x Series) Enables high-speed data transfer.



### Easy to Use Design

- Paper label free (KX-NT560/KX-NT556/KX-NT553) Since the numbers are displayed on the screen, a paper label is not required.
- Small footprint reduces desk space
- Longer handset curly cord



# **IP Phone 'KX-NT5xx Series'**

**Specifications** 

Мо	del Number	KX-NT551	KX-NT553	KX-NT556	KX-NT560			
Functions	LCD	1-Line, Monochrome	3-Line, Monochrome	6-Line, Monochrome	6-Line, Monochrome			
	Backlight		Y	es				
	Speakerphone		Yes (Full Duplex)					
	FF Button	8	2 x 12 (Self Labelling)	3 x 12 (Self Labelling)	4 x 8 (Self Labelling)			
	Bluetooth Headset Connectability		N/A	1	Built-in			
	Electronic Hook Switch	N/A		Yes*1	I			
	Ethernet Port		2 ports (10/100/1000M)					
	POE		af compliant)					
	Others	IPv4, DHCP Cli	ent, Audio Codec (G.722/G.7	c (G.722/G.711/G.729a), Echo Cancellation, Microphone				
Options	AC Adaptor		KX-	A239				
	Wall Mount Kit	KX-A432		KX-A433				
	Wired Headset		RP-TCA	400/430				
Others	Colour Variation		White	e, Black				

\*1: Only a Φ3.5mm pin jack is connectable.

Note: Some operations may vary depending on the type of telephone being used.

# **IP Phone 'KX-NT5xx Series'**

**Specifications** 

Mod	lel Number	KX-NT511A	KX-NT511P	KX-NT543	KX-NT546		
Functions	LCD	1-Line, Mor	nochrome	3-Line, Monochrome	6-Line, Monochrome		
	Backlight	N//	4	Yes			
	Speakerphone	Yes (Full	Duplex)	Y	/es		
	FF Button	3		2	24		
	Bluetooth Headset Connectability		Ν	/A			
	Electronic Hook Switch	N/J	Ą	Yes*1			
	Ethernet Port		2 ports (	(10/100M)			
	ΡοΕ	N/A	Yes	Yes (802.3af compliant)			
Ī	Others	IPv4, DHCP Clie	ent, Audio Codec (G.722/G.7	11/G.729a), Echo Cancellatio	n, Microphone		
Options	AC Adaptor	Attached	N/A*2	KX-A239			
	Wall Mount Kit	Built	-in	KX-	A433		
	Wired Headset	N//	4	RP-TC/	\400/430		
Others	Colour Variation		, Black				

\*1: Only a  $\Phi$ 3.5mm pin jack is connectable.

\*2: Service parts

Note: Some operations may vary depending on the type of telephone being used.

# **Digital Phone 'KX-DT5xx Series'**

#### Lineup

### **For Executives/Supervisors**

#### KX-DT546 with KX-DT590

- 6-Line Backlight LCD Display
- 24 Flexible CO Buttons
- Full Duplex Speakerphone
- Electronic Hook Switch
- Options
- KX-DT590: Digital DSS console (48-Key)



### For Standard Users

#### KX-DT543

- 3-Line Backlight LCD Display
- 24 Flexible CO Buttons
- Full Duplex Speakerphone
- Electronic Hook Switch
- Options

KX-DT590: Digital DSS console (48-Key)



### **For Simple Users**

#### **KX-DT521**

- 1-Line Backlight LCD Display
- 8 Flexible CO Buttons
- Full Duplex Speakerphone
- Options
- KX-DT590: Digital DSS console (48-Key)



A white model is available for each phone

# **Digital Phone 'KX-DT5xx Series'**

**Features** 

### **High Audio Quality**

#### Full duplex speakerphone

The speakerphone supports "full duplex", enabling both parties to speak at the same time without their voice getting cut out.

#### Advanced speaker design

Speakers enhance the characteristics of low frequencies and contain a high performance D-class audio amp.

Larger acoustic chamber The acoustic chamber reduces echo and vibration from the speaker.

### **Hands Free Communication**

Electronic Hook Switch (EHS) supported (KX-DT546/KX-DT543) By connecting an EHS headset, you can perform wireless communication.

### Easy to Use Design

- Small footprint reduces desk space
- Longer handset curly cord





Special material

Acoustic chamber

(acoustic box)

cone circle

Small footprint

Longer handset curly cord

# **Digital Phone 'KX-DT5xx Series'**

**Specifications** 

opeemear						
		KX-DT521	KX-DT543	KX-DT546		
Mo	odel Number					
	LCD	1-Line, Monochrome	3-Line, Monochrome	6-Line, Monochrome		
	Backlight		Yes			
	Speakerphone		Yes (Full Duplex)			
	FF Button	8	24			
Functions	Bluetooth Headset Connectability	N/A				
	Electronic Hook Switch	N/A	Ye	es <sup>*1</sup>		
	Ethernet Port		N/A			
	PoE	N/A				
	Others	Audio Codec (C	G.711), Echo Cancellation, Microphon	e, 1 DXDP Port		
	AC Adaptor		N/A			
Options	Wall Mount Kit	KX-A432	KX-/	A433		
	Wired Headset		KX-TCA400/430, RP-TCA400/430			
Others	Colour Variation		White, Black			

\*1: Only a  $\Phi$ 3.5mm pin jack is connectable.

Note: Some operations may vary depending on the type of telephone being used.



# **Wireless Terminal**

**Features** 

#### **Noise Countermeasures**

#### Noise reduction

Detect and reduce the noise parts of transmitted voices



#### Dynamic listening volume control

When the KX-TCA series detects noise, it automatically increases the receiver volume to an easy-to-hear level.





With noise

### **Hands Free Communication**

Built-in Bluetooth (KX-TCA285/KX-TCA385) Bluetooth for wireless calls using a supported headset.



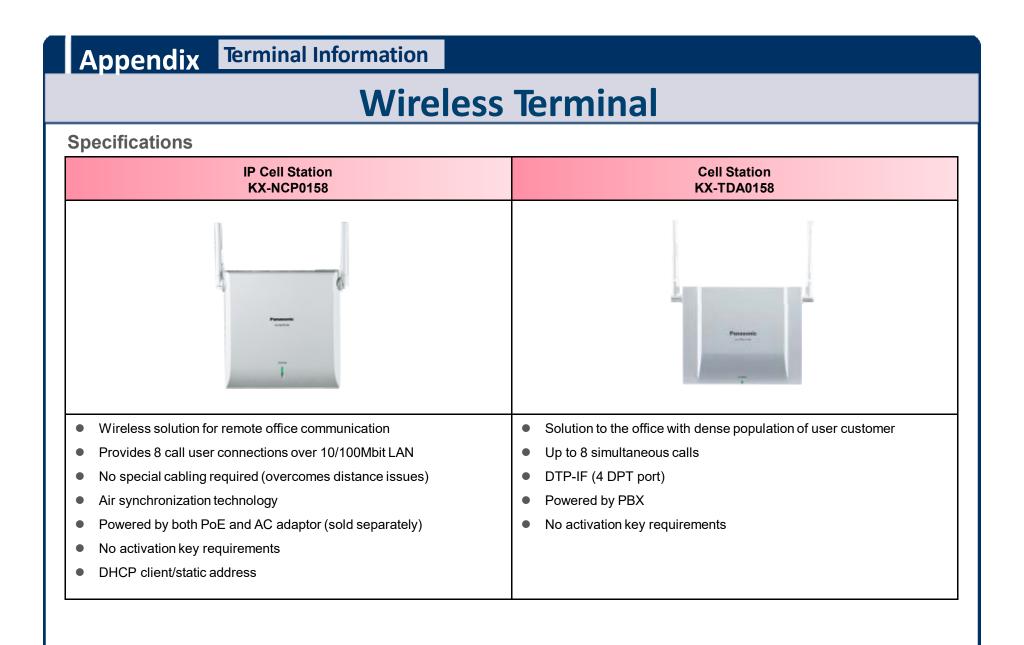
## **Wireless Terminal**

**Specifications** 

	Standard Model KX-TCA185	Slim & Light Model KX-TCA285	IP65 Tough Type Model KX-TCA385
Model Number			
LCD		1.8 inch TFT Colour	
PBX Linked Feature <sup>*1</sup>		Yes	
Speakerphone		Yes (Full Duplex)	
PBX Flexible CO Button		12	
Soft Keys		3	
Headset Jack	Ye	es*2	N/A
Noise Reduction		Yes	
Wireless XDP Parallel Function		Yes	
Conference Function		Yes	
DECT Paging		Yes	
PS Ring Group		Yes	
Vibration		Yes	
Splash and Dust Resistant	N	I/A	IP65
DECT Encryption		Ready	

\*1 Examples: PBX Call Log/PBX System Phonebook/PBX Personal Programming etc.

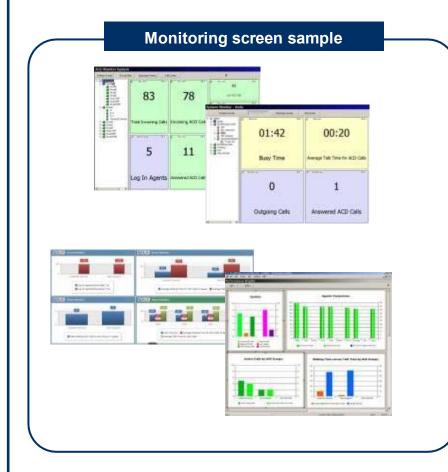
\*2 Only a Φ2.5mm pin jack is connectable.

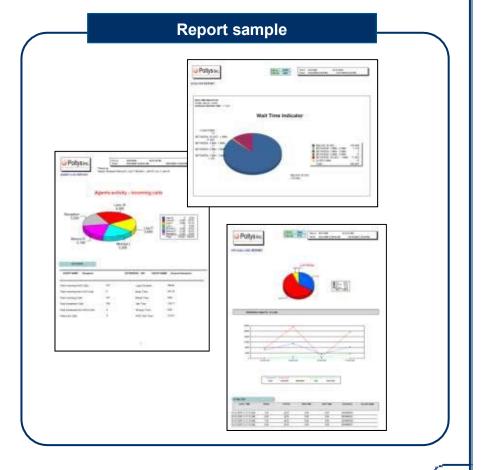


### Appendix Terminal Information **Wireless Terminal Specifications Cell Station** Repeater **KX-TDA0155** KX-A405 Up to 2 simultaneous calls Designed to extend the range of a DECT Portable station DTP-IF Up to 6 repeaters can be registered to one cell station\* Powered by PBX Up to 3 repeaters can be registered in a cascade configuration Powered by AC adaptor No activation key requirements Wall mountable

## Call Centre Solution - "CC View" Activity Monitor and Report Tool

"CC View" provides a more detailed activity monitor and reports than the built-in function (page 41-42).





# **Communication Assistant**

#### Lineup

For details, see page 48, 56, 73-92.

#### CA Basic-Express, CA PRO

- For Personal Productivity,
- For General Offices

Intuitive point and click telephony fully featured with real-time presence indication Stay informed of users availability in different locations.



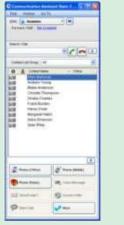
#### **CA Operator Console**

- For Operators / Agents
- For Reception / Secretaries

An agent can use the software to easily handle calls, and professionally handle communication between customers and colleagues.







CA Basic-Express Free



### **CA Supervisor**

- For Team / Group Productivity
- For Call Centres

A team supervisor can easily monitor and manage the real-time telephony activities of group members and agents.

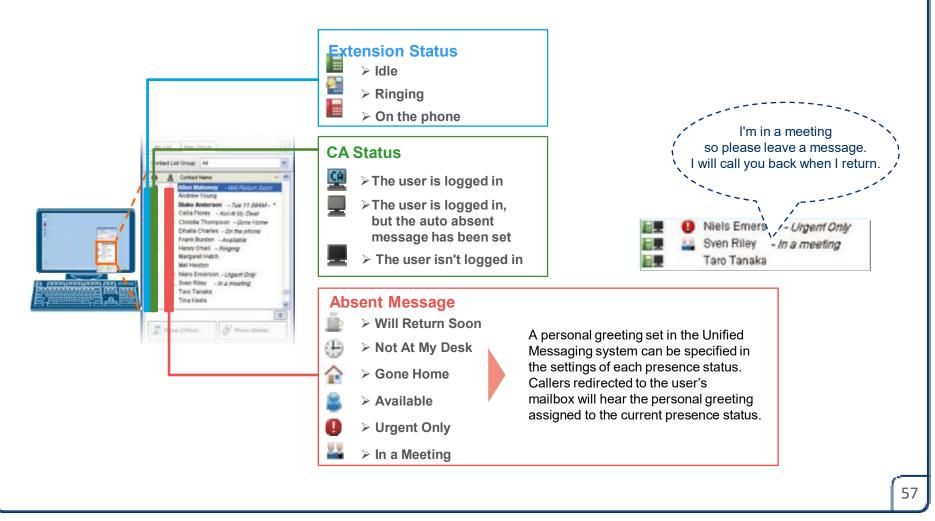


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# **Communication Assistant**

### Presence

Users can save time and enjoy smoother communication by checking the status of co-workers on a PC screen right at their desk. Users can also choose the most suitable communication method to make calls, send e-mails, or chat with others, depending on the situation.



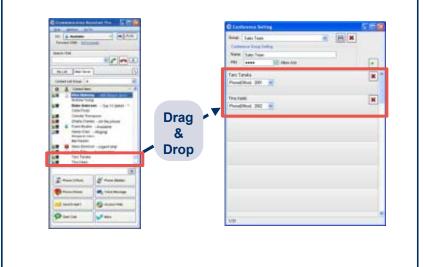
# **Communication Assistant**

### **Conference Feature**

Using the conference function, you can create ten conference groups of up to 32 people, simply by dragging and dropping members from the contact list. Conference groups can be entered with a group name of your choice. Only three clicks are required to start a conference.

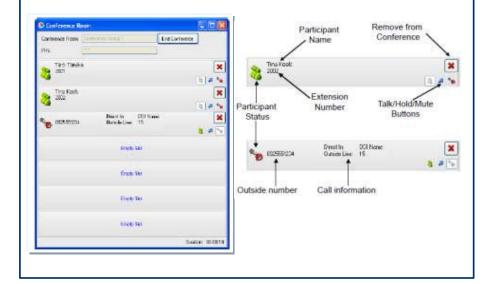
#### Editing conference group settings

To add members to a conference, drag and drop contacts from the contact list to the conference setting window, or right-click a contact and select Add Member To Conference.



#### **Conference room window**

During a conference, the originator of the conference can enable or disable the ability of other members to speak, put them on hold, or remove them from the conference.



# **Communication Assistant**

### **Microsoft Outlook Integration**

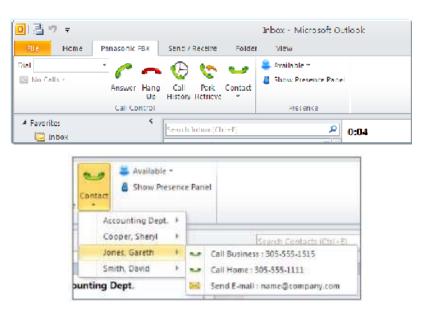
CA can seamlessly integrate with Microsoft Outlook® 2003/2007/2010. During the installation of CA Client, if you select to add call functions to Outlook, a toolbar will be added to Outlook. The toolbar offers many of the call features of CA Client.

### Pop-up Outlook Contact Window for Incoming Calls

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General Detail	le 🕴	Activities Certificates All Fields					
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When a call is incoming, the Outlook contact information of that caller will appear.

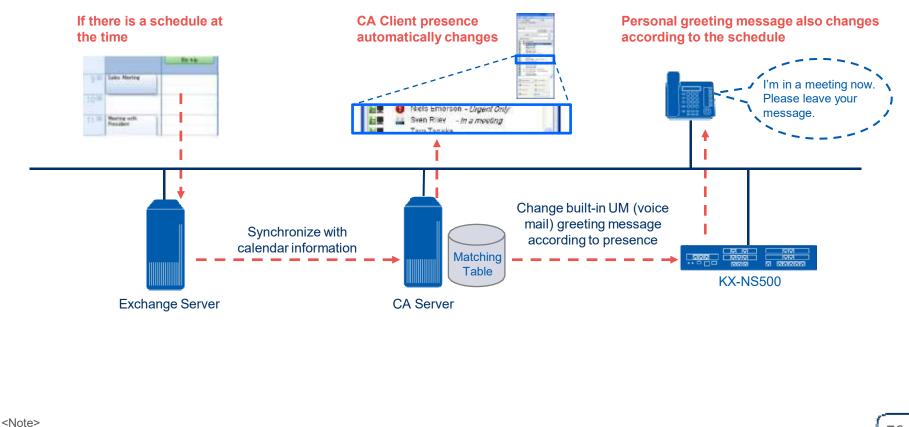
### **Outlook Tool Bar**



# **Communication Assistant**

### **Microsoft Exchange Server Integration**

If a CA server is installed on your network, you can integrate a Microsoft Exchange calendar with CA Client. When this is done, your presence will automatically change according to the content of your Exchange calendar (by referring to a matching table). You can also set keywords in your calendar's schedule to change your presence.



The supported versions of Exchange Server are 2007 and 2010. 2003 is not supported.

## **Communication Assistant**

### **CRM Integration (TAPI/CSTA Support)**

CRM integration enables linking with a wide range of CRM software by installing middleware.

CA Client also has a 1<sup>st</sup> party TAPI, which is a standard interface.

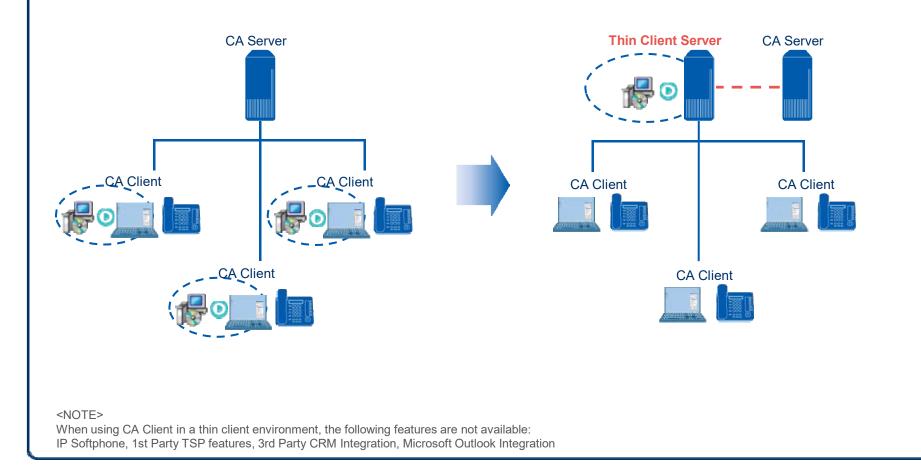
Functions that can be linked with CRM software include call pop-ups using caller ID, the CRM phone book, and calling from applications.

For information about middleware and supported CRM software types, contact your Panasonic sales company.

# **Communication Assistant**

### **Thin Client Environment Support**

CA Client can be used in a thin client environment. The supported thin client environments are Citrix XenApp<sup>™</sup> and Microsoft Terminal Service. A CA server and a thin client activation key (KX-NSA010) are required to enable thin client support. Since personal information such as address books is not retained on the client PCs, safety is enhanced from an information security perspective.



# **Communication Assistant**

### **Network Camera Integration**

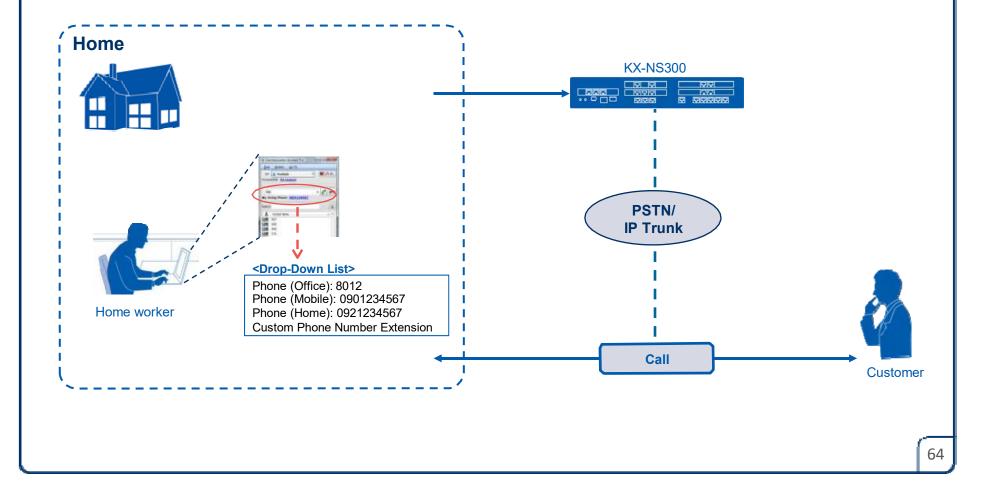
Panasonic network cameras can integrate with a CA desktop PC. This allow users to view video on their PC from a remote location simply by clicking the access web in the CA contact list. By linking a registered door phone, users can also answer calls and open the door after confirming video on the screen.



# **Communication Assistant**

### Follow me function (CA integration with public telephone numbers)

CA can work with mobile phones or home phones. Home workers can make calls using the KX-NS500, to reduce telephone charges. Outgoing and internal calls can be made by using CA when outside.



## **Communication Assistant**

**CA Operator Console - Overview** 

#### **CA Operator Console**

Dial	History Go To								
	Blake Anderson		Duration: 00.00.04		101 (#) <sup>P</sup> C	-	ullable DND : <u>Not</u>	Assigned	
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#### For

- Agents
- Receptionists

#### **Easy Call Handling**

Users can manage multiple calls simultaneously using a graphic interface.

#### **Extension Setting**

Various extension settings can be set.

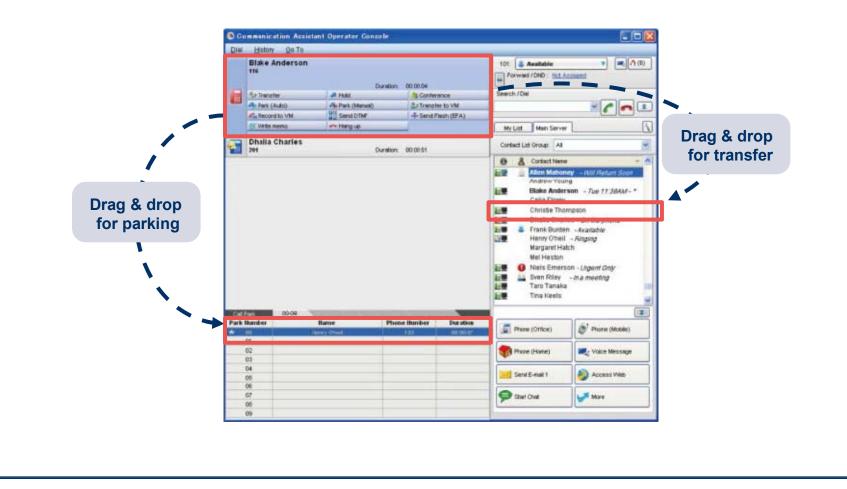
- Set a wake-up call
- Set and clear the absent message, etc.



# **Communication Assistant**

### **CA Operator Console - Easy Call Handling**

The status of received and parked calls are displayed in the Arriving Calls Screen, allowing a single agent to handle multiple controls. Agents can easily transfer and park calls with a simple drag & drop operation.



# **Communication Assistant**

### **CA Operator Console - Extension Settings**

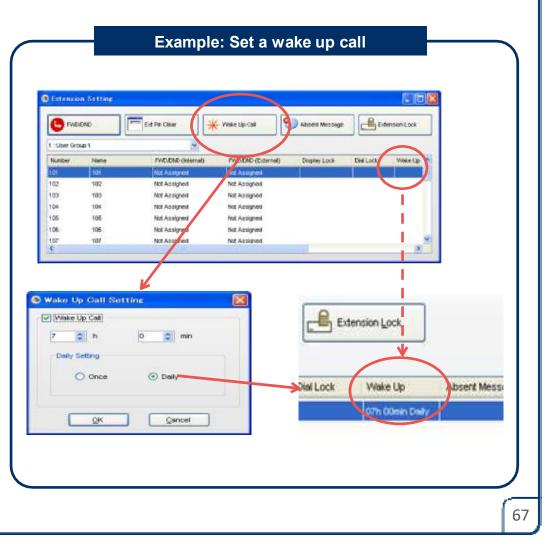
Operators can set and change the settings of each extension.

Operators can set the following

- FWD/DND
- Clear the extension PIN
- Set a wake up call
- Set/clear absent message
- Extension lock/unlock

### For the Hospitality Industry





# **Communication Assistant**

**CA Supervisor - Overview** 

### CA Supervisor



### For

- Supervisors
- Managers

#### **Real-time Status Management**

Supervise customer call handling by monitoring in real-time the number of calls waiting and the longest wait time.

Monitor agent status and control login and logout operations.

Manage the performance of all agents in a group.

#### **Agent Support**

Support agents who need help with difficult customer calls. (Listen-in, Busy Override, etc.)

## **Communication Assistant**

### **CA Supervisor - Real-time Status Management**

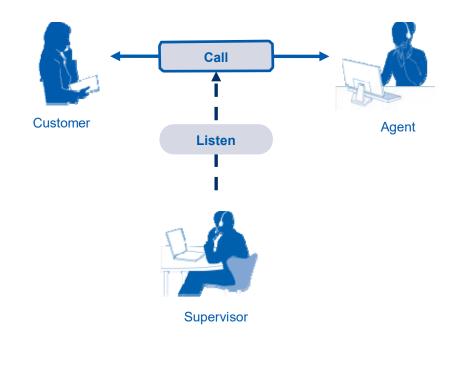
Supervisors can monitor the status of a target group's agents with the Group Call Monitor feature.



# **Communication Assistant**

### **CA Supervisor - Agent Support**

Supervisors can support agents who need help with difficult customer calls.



#### Listen-In

Supervisors can listen in to the conversation of any agent extension number.

#### > Take Over

Supervisors can take over the telephone conversations of agent extension numbers.

### Busy Override

Supervisors can override the call of any agent extension number.

#### Appendix Improved Work Efficiency **Communication Assistant** -CA Modules as CA Family-**CA Modules as CA Family** 1. Conference Click! 1 Bridge unication Assistant Oper.... 🔚 🗖 🔯 History Ga To 223 Z Available CA Modules screen Forward /DND Not Assigned 2. Appointment Incoming Group : Log out Reminder W. C.L. Makulas - Cariboance Bridge Search / Dial Fig. 34 . . . 1 Cent Mai My List SEG + TS ... PMM 7-971 3. Speech Auto Contact List Group: SE 1T Att Serve AM. News Contact Name Office Attendant 0 8 08/138 131/137 151/137 152/137 日間 由要 [283] 283 index fairs 副權 IR. Nonaka 🖈 7-82(NS100... 282 5 = 4. Outboun Phone (Office) Phone (Mobile) Norma Diche 🦨 Alla Abantesi 🦉 Dubling Datesi 🚛 AD Paceto 😭 Appartme d Dialer Phone (Home) . Voice Message Send 5-mail 1 Access Web Select an application G Start Chat More 5. ACD Reports

# **Communication Assistant** -CA Modules as CA Family-

### **Conference Bridge Module**

The CA Conference Bridge module provides a conference room for multi-party audio conferences. The conference schedule and participants can be set or maintained by the supervisor.



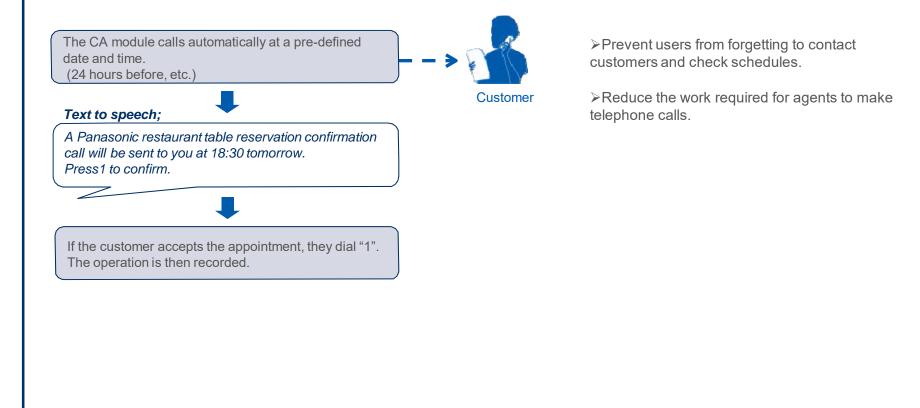
#### Meet-me conference

- Scheduled Meet-Me conference
- > Automatic scheduled dial-out conference
- Maximum 50 conference rooms
- > Maximum 96 participants per room
- > Total of 100 simultaneous attendees per system

## **Communication Assistant** -CA Modules as CA Family-

### **Appointment Reminder Module**

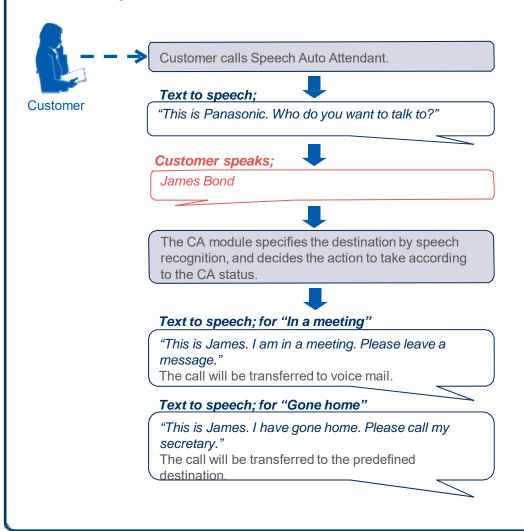
The CAAppointment Reminder module places outbound calls to deliver specific appointment reminder information to each called recipient at a pre-defined date and time. It is useful for preventing customer no shows.



## **Communication Assistant** -CA Modules as CA Family-

### **Speech Auto Attendant Module**

The CA Speech Auto Attendant module provides a call routing function. Calls are redirected to voicemail or a mobile phone, etc. according to the CA status after the caller tells the module the name of the caller they want to talk to.



>Customers can connect to people in charge without pressing buttons

>When the agent a customer wants to talk to is absent, the customer can leave voice mail or a message for another person in charge

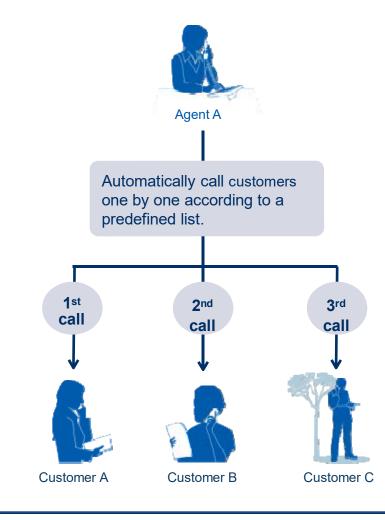
➢By simply changing the CA status, communication can be performed with a method according to that status

# **Communication Assistant** -CA Modules as CA Family-

### **Outbound Dialer Module**

The CA Outbound Dialer module is a productivity tool that automatically places calls to a predefined list of phone numbers when the agent is idle.

It is useful for reducing misdialing and the time it takes to enter phone numbers.



>Reduce call mistakes made by agents and the time it takes to dial.

≻Reduce the time that agents are free to improve work efficiency.

# **Communication Assistant** -CA Modules as CA Family-

### **ACD Reports Module**

The CAACD Reports module is a productivity tool that provides Call Centre reporting features, adding ACD Call Centre specific functionality to CA.

By adding the CA module to CA Supervisor, monitoring and reporting can be provided on one PC.

