

WirelessIP 3000 Administrator Manual

Thank you for purchasing the WirelessIP 3000.

- Before use, kindly read this "Administrator Manual" thoroughly to have an understanding of the contents.
- After reading, place it within reach at all times such as at the side of this product.



Product is certified to comply with technical standards.

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Chapter 1 Administrator Settings

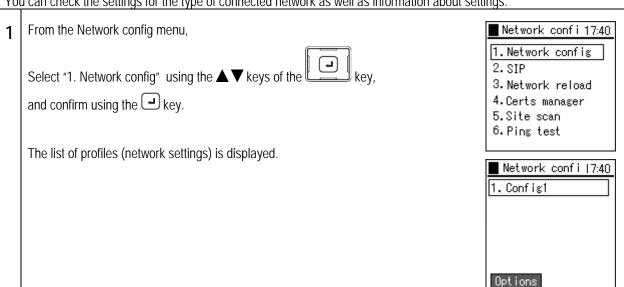
Administrator Menu

Makes required settings for using the phone. Only administrators are able to set items on the Administrator Menu. Tail. 1 key to select Menu. 3 Press the L 04/25 Mon. Select "5. Setup" using the ▲ ▼ keys of the Presence Menu 17:40 and confirm using the key. 1.Phone book 2.Message 3.Call log 4.Presence 5.Setup 6.Network From the Setup menu, Setup 17:40 1.Bell/Vib. Select "2. Phone lock" using the ▲▼ keys of the 2.Phone lock 3.Alarm and confirm using the key. 4.Volume 5.Error notify 6.Information From the Phone lock menu, Phone lock 17:40 1. User Pwd Select "1. User Pwd" using the ▲▼ keys of the 2. Lock mode and confirm using the key. When you select "1. User Pwd", the system asks you for the current password. Enter the Admin password. The default value is 000000 (6 zeroes). Phone lock 17:40 Set this using the key. User Pwd Old password

This configures network-related settings. From the Admin menu, Admin 1 17:40 1.Network config Select "1. Network config" using the ▲ ▼ keys of the 2. Password and confirm using the key. 3.Upgrede 4. Error log 5.WEB server 6. Phone reset

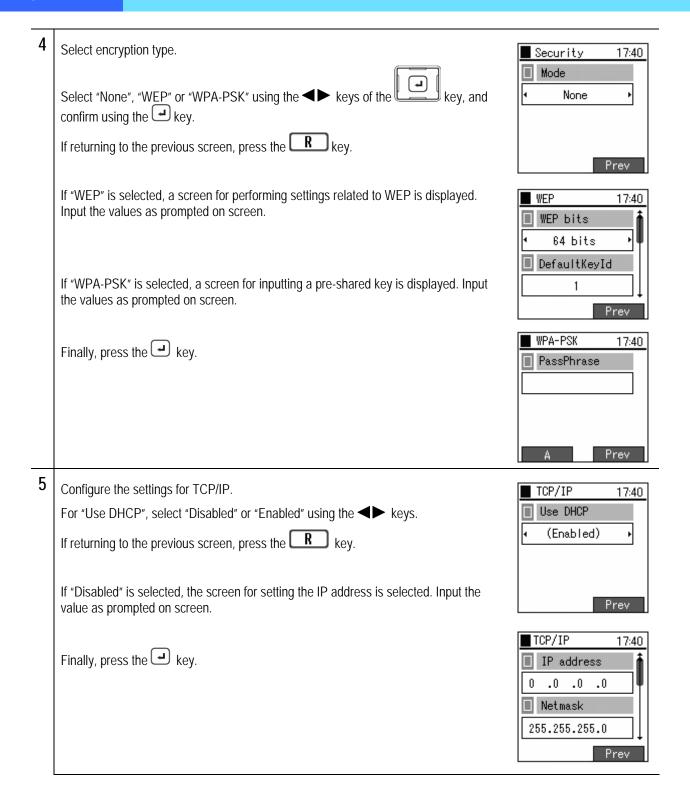
Network

You can check the settings for the type of connected network as well as information about settings.

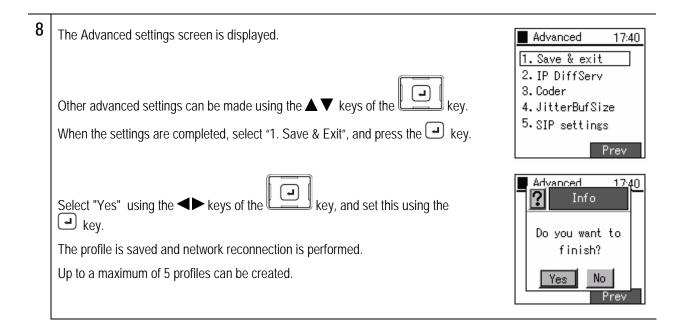


Addition

Nev	v network profiles can be created	
1	When making additions to the profile, press the key on Network confi screen to select the submenu. Select "1. Add", and press the key. A confirmation message is displayed. Select "Yes" using the keys of the key, and set this using the	Network conf i 17:40 1. Config1 Options 1. Add 2. Reset Network conf i 17:40 Inf o
	key.	New entry? Yes No Options
2	The network profile registration wizard is started. Input the profile name. For the "Join Method", select "Auto" or "Manual" using the keys. After completion of editing, press the key.	Basic info 17:40 Name Config2 Join Method Auto
റ	Input the SSID value of the wireless LAN to connect to. If left blank, connection is made to the access point having the strongest wave signal from among the access points that can be connected to. After completion of editing, press the key. If returning to the previous screen, press the key.	SSID 123 Mode Infra A Prev



Configure the settings for the network authentication method. Authenticate 17:40 Mode For "Mode", select "Disable", "WEB", "8021X-MD5", "8021X-TLS", "8021X-PEAP", or "8021X-TTLS" using the ◀► keys. None If returning to the previous screen, press the **R** key. If anything other than "Disabled" is selected, the screen for setting the user ID and password is displayed. Input the values as prompted on screen. Authenticate 17:40 Username Finally, press the key. Password Configure the settings for NAT Traversal. NAT traversal 17:40 For "Mode", select "Disable", "SNAT", "UPnP", or "STUN" using the ◀▶ keys. ■ Mode (Disabled) If returning to the previous screen, press the If "SNAT" or "STUN" is selected, the respective setting screens are displayed. Input the values as prompted on screen. Prev Finally, press the key.



Deletion

Network profiles can be deleted. When deleting a profile, from the Network confi screen Network confil17:40 1. Config1 Config2 Options select the profile to be deleted using the $\blacktriangle \nabla$ keys of the 1. Add and press the key to select the submenu. 2.Delete 3.Up Select "2. Delete", and press the key. 4. Down Network confil17:40 A confirmation message is displayed. ? Info Select "Yes" using the ◀▶ keys of the key, and confirm using the Delete entry? key. Deletion of all profiles is not possible. Yes Upt ions

■ Priority-Level Settings

The priority level of a profile can be set. When setting the priority level of a profile, from the profile-list screen Network confi 17:40 1. Config1 2. Config2 Select the profile to be set using the $\blacktriangle \nabla$ keys of the Options and press the key to select the submenu. 1. Add 2. Delete Select "3. Up" or "4. Down", and press the wey. 3.Up 4. Down Basic Information A profile's name and its connection method can be set. From the Config1(profile name) menu, Config1 17:40 Basic info Select "1. Basic info" using the ▲▼ keys of the 2. WLAN and confirm using the key. 3. Security 4. Authenticate 5. TCP/IP 6. SIP Outb proxy 2 When editing the "Name", select "Edit" using the key. Basic info 17:40 ■ Name For the "Join Method", select "Auto" or "Manual" using the ◀▶ keys. Config1 After completion of editing, save using the key. ■ Join Method Auto Edit

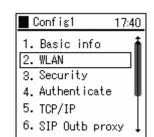
Wireless LAN

The SSID that identifies the access point can be set.

From the Config1(profile name) menu, 1

Select "2. WLAN" using the ▲▼ keys of the

and set using the key.

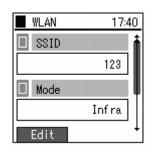


2 Select "Edit" using the key.

Input the SSID value of the wireless LAN to be connected to.

If left blank, connection is made to the access point having the strongest wave signal from among the access points that can be connected to.

Finally, save using the key.



Encryption

These settings are related to encryption. This product supports encryption based on WEP (64/128/256 bits).

From the Config1(profile name) menu, 1

Select "3. Security" using the ▲ ▼ keys of the and confirm using the key.



Select "Edit" using the key.

For "Mode", select "Disabled", "WEP", or "WPA-PSK" using the ◀▶ keys of the



key.

Mode	Explanation
WEP	Based on the WEP key that was set, an effectively secure method for encrypting wireless communications data is made.
WPA-PSK	This is the method to encrypt wireless communications data based on a pre-shared key set in both this product and the connected device. As the encryption key is replaced automatically, strong security can be achieved.



■ When WEP is selected for Mode

1 If "WEP" is selected as the Mode, for the "Auth Algorithm",

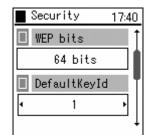
Select "Auto", "Open System", or "Pre-shared Key" using the ◀► keys of the key.



2

Select "WEP bits" and "Default Key Id".

For the "WEP bits", select "64 bits", "128 bits", or "256 bits" using the keys of the key.



For the "Default Key Id", Select "1", "2", "3", or "4" using the ◀▶ keys of the key.

3 Input the WEP key as hexadecimal or alphanumeric. (Refer to the equivalence chart below)

Bit	Hexadecimal	Alphanumeric
256 bits	58 characters	29 characters
128 bits	26 characters	13 characters
64 bits	10 characters	5 characters



Encryption Bit Length	Hexadecimal (0- 9, a- f)	Alphanumeric
128 bits	26 characters	13 characters
Input example	31:31:31:31:31:31:31:31:31:31	1111111111111
64 bits	10 characters	5 characters
Input example	31:31:31:31	11111



Notice

If the WEP key (hexadecimal, alphanumeric) that is input does not fill up the character count specified in the encryption bit length, the WEP key is generated by padding the hexadecimal number with additional zeros.

The longer the encryption bit length, the stronger the security.

Finally, set using the key.

Hex (Hexadecimal Code) and Alpha (ASCII Code) equivalence chart

Hex Al	pha	Hex Alp
21	!	32
23	#	33
24	\$	34
25	%	35
26	&	36
27	,	37
28	(38
29)	39
2a	*	3a
2Ь	+	3c
2c	,	3d
2d	-	3e
2e		3f
2f	/	40
30	0	41
31	1	42

(пехачесния			
-lex Alpha			
32	2		
33	3		
34	4		
35	5		
36	6		
37	7		
38	8		
39	9		
3a	:		
3с	٧		
3d	Ш		
3e	^		
3f	?		
40	@		
41	Α		
42	В		

i Code) and Aip			
Hex Al	Hex Alpha		
43	С		
44	D		
45	Е		
46	F		
47	G		
48	Н		
49	I		
4a	J		
4b	K		
4c	L		
4d	М		
4e	N		
4f	0		
50	Р		
51	Q		
52	R		

Hex Alpha		
S		
Т		
U		
V		
W		
Х		
Υ		
Z		
[
¥		
]		
,		
_		
`		
a		
Ь		

Hex A	Ilpha
63	С
64	d
65	е
66	f
67	g
68	h
69	i
6a	j
6Ь	k
6c	1
6d	m
6e	n
6f	О
70	Р
71	q
72	r

Hex Alp	ha
73	S
74	t
75	u
76	٧
77	W
78	х
79	у
7a	z
7Ь	{
7c	
7d	}
7e	ž

■ When WPA-PSK is selected for Mode

1 Select "Pre-shared key" (PassPhrase). Input the same value as the value set in the connection device.

Input the "PassPhrase" as single-byte alphanumeric characters with at least 8 characters but not more than 63 characters.

Finally, save using the key.



Notice

Starting from the input pre-shared key, the key is automatically changed to a new value every fixed period. This makes it more secure than WEP.



■ Authentication Method

Authentication method is the settings related to network authentication.				
1	From the Config1(profile name) menu, Select "4. Authenticate" using the ▲ ▼ keys of the key, and confirm using the key.	Config1 17:40 1. Basic info 2. WLAN 3. Security 4. Authenticate 5. TCP/IP 6. SIP Outb proxy		
2	Select "Edit" using the key, For "Mode", Select "Disable", "WEB", "8021X-MD5", "8021X-TLS", "8021X-PEAP", or "8021X-TTLS" using the keys. Finally, set using the key.	Authenticate 17:40 Mode None Username		

■ TCP/IP

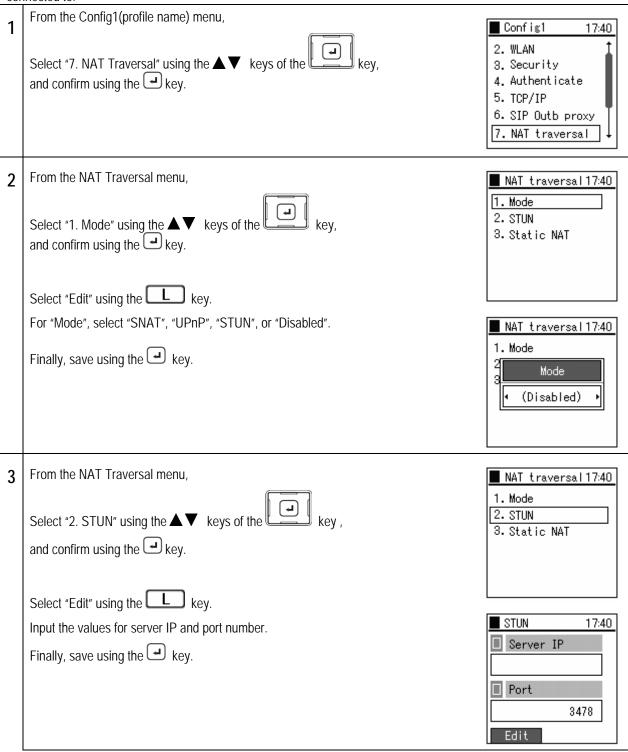
The settings for DHCP, IP address, subnet mask, default gateway, and DNS can be configured. From the Config1(profile name) menu, 1 Config1 17:40 1. Basic info Select "5. TCP/IP" using the ▲ ▼ keys of the key, and confirm using the 2. WLAN key. 3. Security 4. Authenticate 5. TCP/IP 6. SIP Outb proxy Select "Edit" using the key. 2 TCP/IP 17:40 Use DHCP (Enabled) For "Use DHCP", Select "Enable" or "Disable" using the ◀▶ keys of the IP address When setting the IP address manually, set DHCP to "Disable" and input values for the 192.168.3.7 items below: Edit IP address: IP address of the WIP3000 · Subnet mask: Value of subnet mask · Default gateway: IP address of default gateway • DNS server 1: IP address of primary DNS DNS server 2: IP address of secondary DNS Finally, set using the key. When "DHCP" is set to "Enable", the values of other setting parameters **Notice** relating to TCP/IP do not apply.

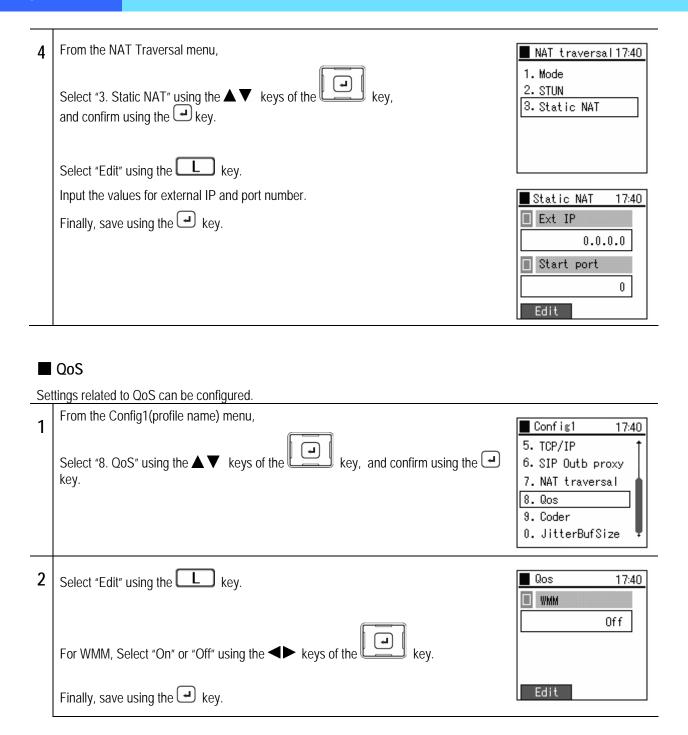
■ SIP Outb Proxy

You can set the Outbound Proxy server settings. Depending on the system configuration it may not be necessary to set them.				
1	From the Config1(profile name) menu,	■ Config1 17:40		
	Select "6. SIP Outb Proxy" using the ▲▼ keys of the key, and confirm using the key.	1. Basic info 2. WLAN 3. Security 4. Authenticate 5. TCP/IP 6. SIP Outb proxy		
2	The screen for inputting the IP address of the SIP Outb Proxy is displayed.	■ SIP Outb prox 17:40		
	Select "Edit" using the key.	☐ Config1		
	Enter the IP address.			
	Finally, save using the key.			
		Edit		

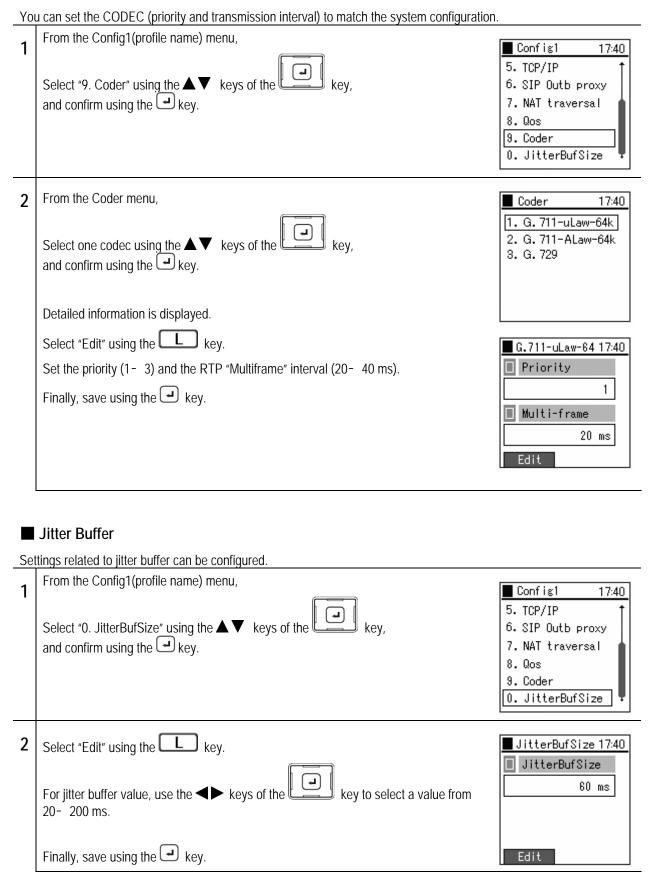
■ NAT Traversal

This product supports UPnP and Static NAT, and it is possible to make calls from within the LAN to outside the LAN via a NAT Box. At these times, the settings for UPnP and Static NAT can be made to match the settings of the NAT Box to be connected to.





Coding



SIP SIP settings can be configured. From the Network menu, 1 Network confil17:40 1. Network config Select "2. SIP" using the ▲ ▼ keys of the 2.SIP and confirm using the key. 3. Network reload 4.Certs manager 5.Site scan 6.Ping test User account Configures the settings for the display name, phone number, user ID, and URL Scheme. 1 From the SIP menu, ■ SIP 17:40 1. User account 2. Server setup Select "1. User account" using the ▲▼ keys of the 3. IMS server and confirm using the key. 4. Outbound proxy 5. Expire 2 User account 17:40

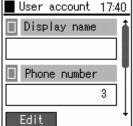
Select "Edit" using the key.

The following information is displayed:

- Display name
- Phone number
- User ID
- User password
- · URL Scheme

The phone number is mandatory, while display name, user ID, and URL Scheme should be input as needed.

Finally, save using the key.



Server

Coı	Configures the settings related to the server.				
1	From the SIP menu, Select "2. Server setup" using the ▲▼ keys of the key, and confirm using the key.	SIP 17:40 1. User account 2. Server setup 3. IMS server 4. Outbound proxy 5. Expire			
2	Select "Edit" using the key. Input values for the following items: SIP domain Proxy server 1 Register server 1 Proxy server 2 Register server 2	Server setup 17:40 Domain/Realm 192.168.3.1 1st Proxy 192.168.3.1 Edit			
■ IMS Server This configures the settings related to IMS server.					
1	From the SIP menu, Select "3. IMS server" using the ▲ ▼ keys of the key, and confirm using the key.	SIP 17:40 1. User account 2. Server setup 3. IMS server 4. Outbound proxy 5. Expire			
2	Select "Edit" using the key. Input values for IM and Presence. Finally, save using the key.	■ IMS server 17:40 ■ Message ■ Presence Edit			

Outbound Proxy

The settings for the outbound proxy server can be configured. Depending on the system configuration it may not be necessary to set them.

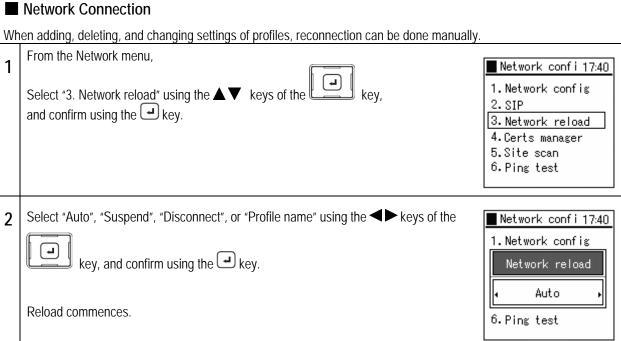
From the SIP menu, 1 ■ SIP 17:40 1. User account Select "4. Outbound proxy" using the ▲ ▼ keys of the 2. Server setup 3. IMS server and confirm using the key. 4. Outbound proxy 5. Expire Select "Edit" using the key. 2 Outbound prox 17:40 ■ Config1 Input the IP address for outbound proxy server. 0.0.0.0 Finally, save using the key. ■ Config2 0.0.0.0 Edit

Expire

The settings for Regist Expire Timer, Session Timer, and Presence Expire Timer can be configured.

From the SIP menu, 1 17:40 ■ SIP 1. User account 2. Server setup Select "5. Expire" using the ▲ ▼ keys of the 3. IMS server and confirm using the key. 4. Outbound proxy 5. Expire Select "Edit" using the key. Expire 17:40 Registration Input values for the following items: 3600 Session Regist Expire 180 Session Expire Presence Expire Edit Finally, save using the key.

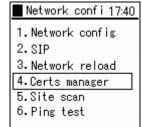
Network Connection



Certificate Management

Certificate settings can be configured.

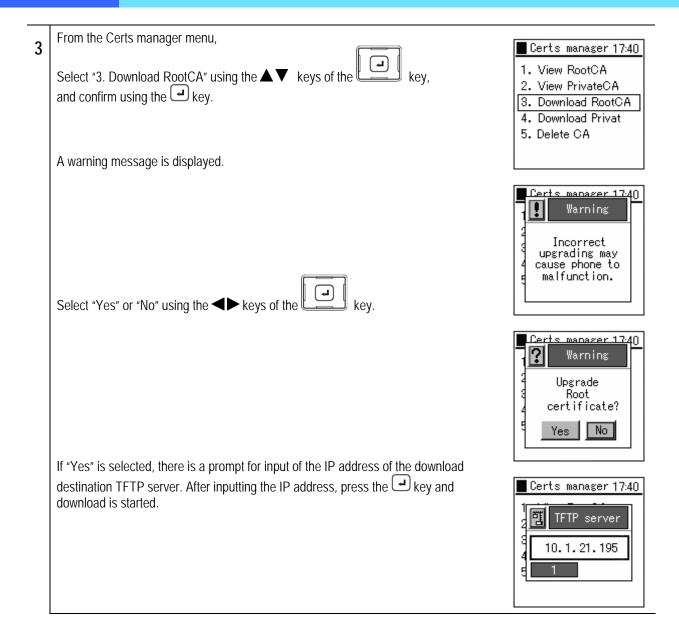
From the Network menu, 1 Select "4. Certs manager" using the ▲ ▼ keys of the and confirm using the key.

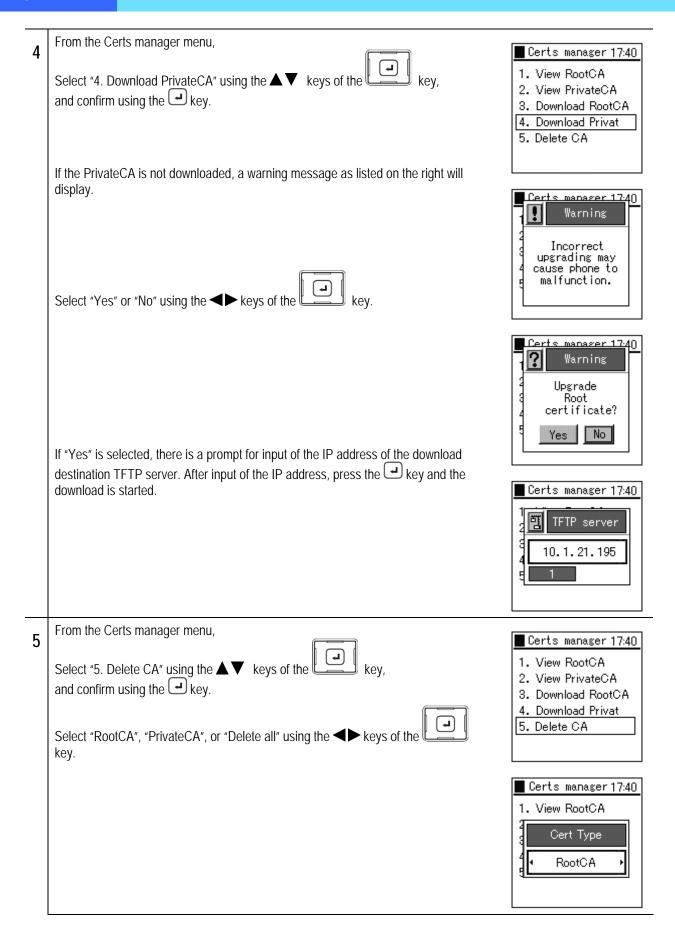


Certificate Management

When running 802.1x (EAP-TLS, PEAP, TTLS), information on root certificates and private certificates can be imported and

checked. From the Certs manager menu, Certs manager 17:40 1 1. View RootCA 2. View PrivateCA Select "1. View RootCA" using the ▲▼ keys of the 3. Download RootCA and confirm using the key. 4. Download Privat 5. Delete CA View RootCA 17:40 ■ CN HCL-CA Issuer C=JP/ST=Tokyo/L From the Certs manager menu, Certs manager 17:40 1. View RootCA 2. View PrivateCA Select "2. View PrivateCA" using the ▲ ▼ keys of the 3. Download RootCA and confirm using the key. 4. Download Privat 5. Delete CA View PrivateC 17:40 ■ CN HCL Issuer C=JP/ST=Tokyo/L





Network Search

Information on detected signals can be displayed. From the Network menu, 1 Network confil17:40 1. Network config 2.SIP Select "5. Site scan" using the ▲▼ keys of the 3. Network reload and confirm using the key. 4.Certs manager 5.Site scan 6. Ping test A message indicating a search is in progress appears. Network confi 17:40 Information Searching... Several seconds later, the SSIDs of the detected access points are displayed. When detailed information needs to be viewed,

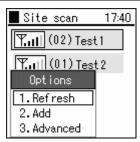


the SSID is displayed with a net overlay. In addition, access points can

be displayed for up to a maximum of 10 locations.

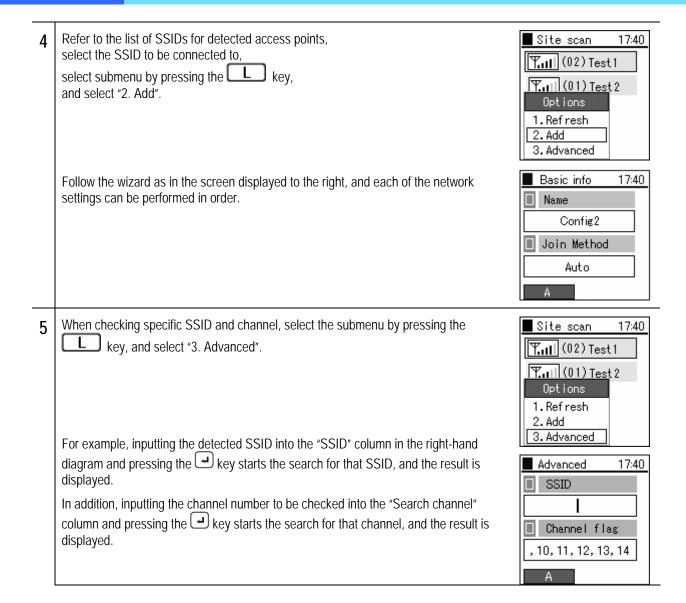
To refresh the network search information, press the key to select the submenu and then select "1. Refresh".

The network search is started again.

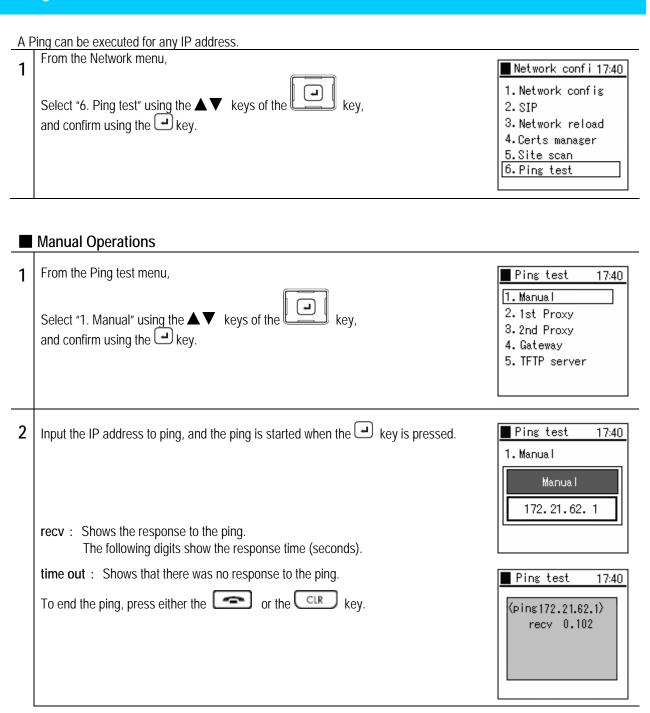


Options





Ping



Proxy Server 1 From the Ping test menu, Ping test 17:40 1. Manual 2.1st Proxy Select "2. 1st Proxy" using the ▲▼ keys of the 3.2nd Proxy and confirm using the key. 4. Gateway 5. TFTP server Proxy server 1 is pinged. Ping test 17:40 **recv**: Shows the response to the ping. (ping172.21.28.251) The following digits show the response time (seconds). recv 0.102 time out: Shows that there was no response to the ping. To end the ping, press either the or the clr key. If proxy server 1 is not set, a message as in the diagram on the right is displayed. Ping test Information No adresss set Proxy Server 2 From the Ping test menu, 1 Ping test 17:40 1. Manual Select "3. 2nd Proxy" using the ▲▼ keys of the 2.1st Proxy 3.2nd Proxy and confirm using the key. 4. Gateway 5. TFTP server Proxy server 2 is pinged. 2 Ping test 17:40 recv: Shows the response to the ping. (ping172.21.28.7) The following digits show the response time (seconds). recv 0.102 time out: Shows that there was no response to the ping. To end the ping, press either the or the key.

If proxy server 2 is not set, a message as in the diagram on the right is displayed. Ping test Information No adresss set Default Gateway From the Ping test menu, Ping test 17:40 1. Manual 2.1st Proxy Select "4. Gateway" using the ▲ ▼ keys of the 3.2nd Proxy and confirm using the key. 4. Gateway 5. TFTP server The default gateway is pinged. Ping test 17:40 recv: Shows the response to the ping. (ping172.21.28.1) The following digits show the response time (seconds). recv 0.102 time out: Shows that there was no response to the ping. To end the ping, press either the or the key. ■ TFTP Server From the Ping test menu, 1 Ping test 17:40 1. Manual Select "5. TFTP server" using the ▲ ▼ keys of the 2.1st Proxy 3.2nd Proxy and confirm using the key. 4. Gateway 5. TFTP server The TFTP server is pinged. 2 Ping test 17:40 **recv**: Shows the response to the ping. The following digits show the response time (seconds). (ping172.21.28.2) recv 0.102 time out: Shows that there was no response to the ping. To end the ping, press either the or the CLR

Password

The settings for changing administrator password and resetting user password are configured. From the Admin menu, 1 Admin 17:40 1. Network config Select "2. Password" using the ▲ ▼ keys of the 2. Password and confirm using the key. 3. Upgrede 4. Error log 5. WEB server 6. Phone reset Administrator Password If the administrator password is forgotten, contact the sales agent where the purchase was made. This sets the administrator password. From the Password menu, 1 Password 17:40 1. Admin Pwd Select "1. Admin Pwd" using the ▲▼ keys of the 2. UserPwd Reset and confirm using the key. When "Admin Pwd" is selected, there is a prompt for the current password. 2 Password 17:40 Input the correct value, and confirm using the key. 1. Admin Pwd Old password The initial value of password is 000000 (6 zeroes). **Notice** When you input the correct password, the system asks you to input the new 3 Password 17:40 password. 1. Admin Pwd New password **Notice** The only characters that can be entered are numerals (0 - 9) only. Input a 5 to 7 digit long password. For verification, the system asks you to input the new password a second time. 4 Password 17:40 1. Admin Pwd Retype Pwd

Password

5 When you input the password, a screen like that on the right is displayed for a few seconds.



User Password Reset

This resets the user password.

From the Password menu,

Select "2. UserPwd Reset" using the ▲ ▼ keys of the key, and confirm using the key.



2 Select "Yes" or "No" using the ◀▶ keys of the and confirm using the ⋠key.



When the user password is reset, it reverts to the initial value of 0000 (4 zeroes).

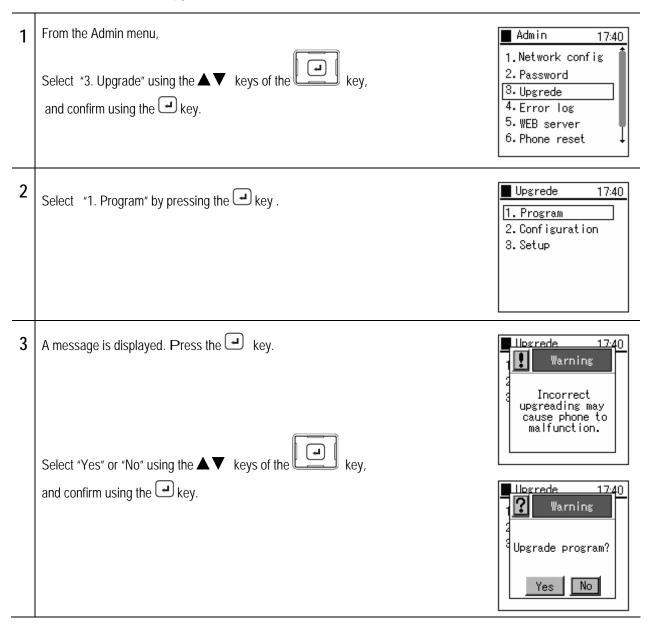


When "Yes" is selected, the message as shown in the diagram on the right is displayed, and returns to the Password menu.

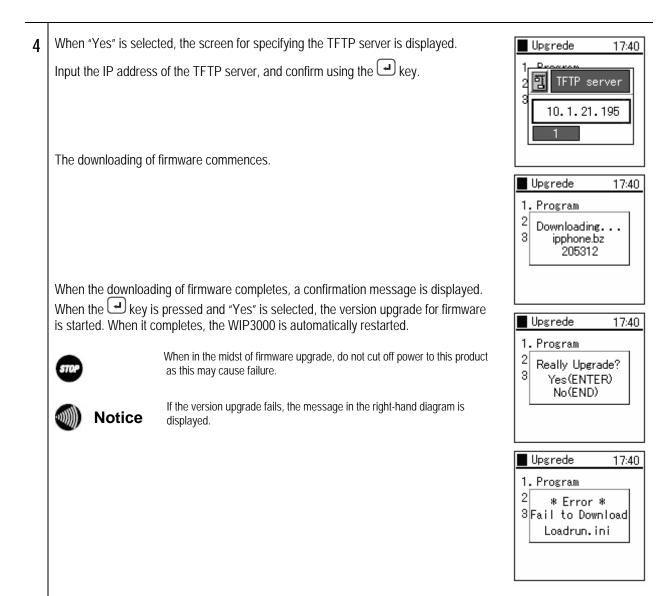


Version Upgrade

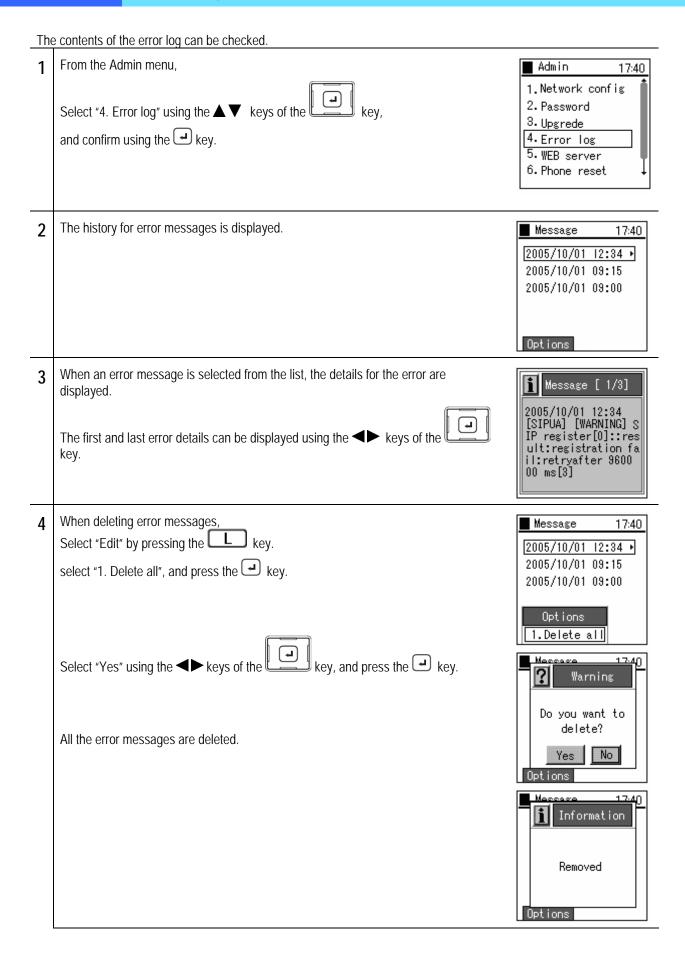
The firmware version can be upgraded online.



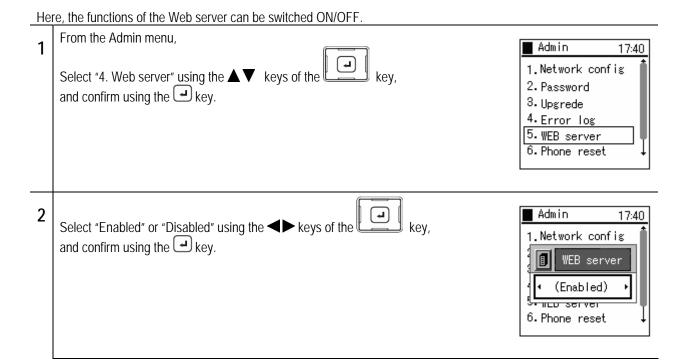
Version Upgrade



Error Log



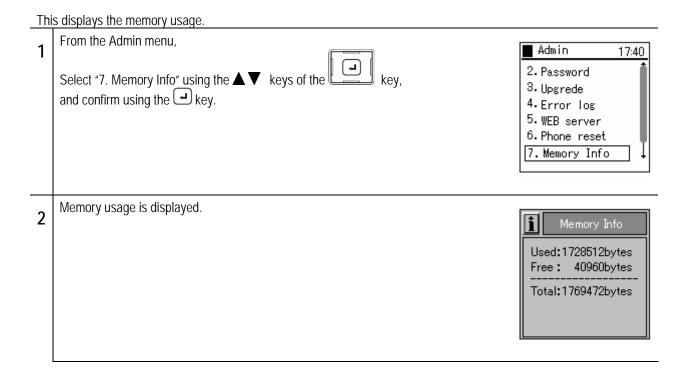
Web Server



Initializing

Reverts settings to the configuration last uploaded. From the Admin menu, 1 Admin 17:40 1.Network config Select "6. Phone reset" using the ▲ ▼ keys of the 2. Password and confirm using the key. 3.Upgrede 4. Error log 5.WEB server 6.Phone reset 2 Admin Select "Yes" or "No" using the ◀▶ keys of the ? Warning and confirm using the key. This will return the factory default. Are you sure? No Yes When "Yes" is selected, initialization is started and reverts to the configuration ■ Admin conditions uploaded previously. Warning When initialization completes, it automatically reboots. Initializing... and Rebooting...

Memory Info (Memory Usage)



Chapter 2 Web Settings

WirelessIP 3000 Web Settings

Overview

This product can be configured via the World Wide Web. WirelessIP3000 Web Settings enables advanced configurations which cannot be configured with this product.



When using web settings, the web server of this product must be set to "Enable".

The recommended browser is IE5.0 and above.

When setting via TELNET:

First, prepare the PC to be used for setting the WirelessIP 3000.

Next, perform the network settings that will enable the PC to be connected to the WirelessIP 3000 phone.

When starting up the WirelessIP 3000 web settings, start up the browser from the PC and access :<port>!... Here, input the IP address or host name of this product into <host>, and the port number into <port> (port number is 8080, this cannot be omitted).

Access restrictions

The authentication screen for logging in to the WirelessIP 3000 web settings is displayed. Input the username and password that are set in the WirelessIP 3000 phone and log in.

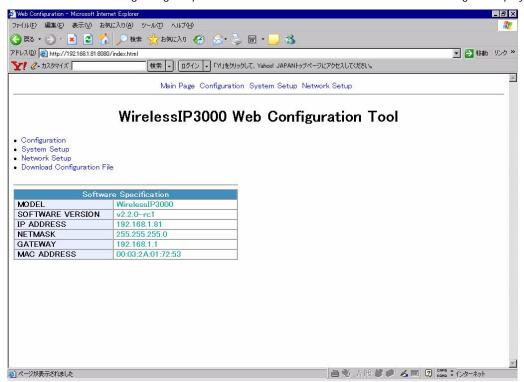
	Management User
Username	admin (default)
Password	000000 (default)
Authority	setting changes firmware upgrade and configuration upgrade
	admin password changesstopping the web server

(Note) The same user cannot simultaneously log in from multiple browsers (clients). General user and admin user are allowed to log in simultaneously.

You can change settings for the phone, upgrade firmware/configuration, change admin passwords, and stop the web server.

Main

The basic information regarding the phone such as its software version and TCP/IP settings is displayed.



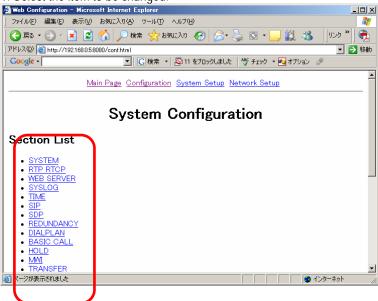
[Display Items]

- · Model: displays model name
- Software version: displays software version of the WirelessIP 3000
- IP address: displays IP address of the phone
- · Net mask: displays net mask of the phone
- · Default gateway: displays default gateway of the phone
- MAC address: displays MAC address of the phone

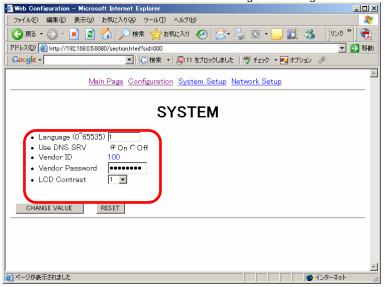
Configuration

This is the menu for configuring the product.

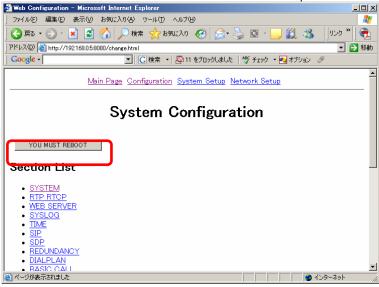
1. Select the item to be changed.



- 2. Edit the value. (Example on screen is "SYSTEM")
- 3. Click the "CHANGE VALUE" button and change the settings.



4. Click the "YOU MUST REBOOT" button and reboot this product.



- * If this product is not rebooted, the settings are not applied.
- * Depending on the item, "YOU MUST REBOOT" button may not be displayed. For those cases, the settings are applied after the "CHANGE VALUE" button is clicked.

System Setup

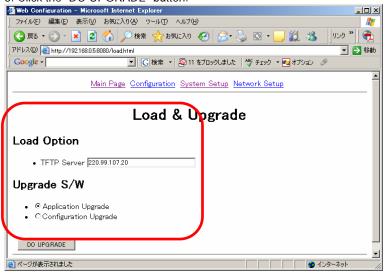
The phone's firmware/configuration can be upgraded, admin user password changed, and the web server can be stopped.



■ Load & Upgrade

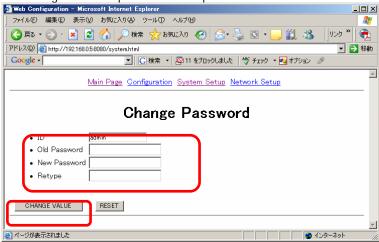
This upgrades the firmware and configuration of the phone.

- 1. Enter the IP address of the TFTP server where the firmware is located.
- 2. Indicate the type of upgrade (software/config).
- 3. Click the "DO UPGRADE" button.



Change Password

This changes the user password of the phone.



- · Input the username (admin) into the ID column.
- · Input old password.
- Input new password.
- Input new password (to confirm).

Click the "CHANGE VALUE" button.

- * If the inputted information is to be reset, click the "RESET" button.
- * Set passwords as 5 -7 digit numerals.

■ Web Server Stop

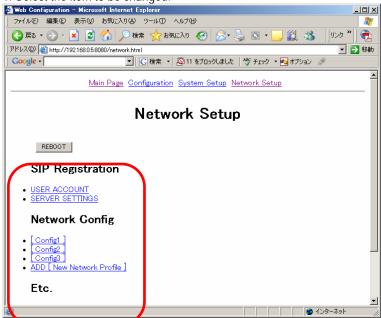
This stops the web server used for accessing the WirelessIP 3000 web settings. Note that access via WWW is not possible during the time the "Web Server Stop" button is clicked.



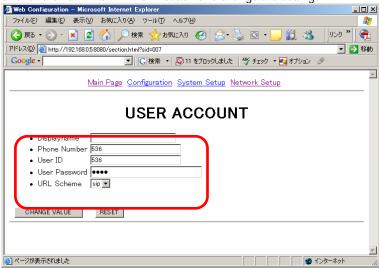
Network Setup

Configures SIP/Network.

Select the item to be changed.



- 2. Edit the value. (Example on screen is "USER ACCOUNT")
- 3. Click the "CHANGE VALUE" button and change the settings.



Chapter 3 Appendix

Glossary

	If the SSID of the wireless LAN client is set to 'ANY connection', any wireless LAN access point can
ANY Connection	be connected to.
	However, access points that reject LAN clients set to 'ANY connection' cannot be connected to.
CODEC	Algorithm for compressing and decompressing digital video and audio data.
(COder DECoder)	This product supports G.711 μ -Law, G711A-Law, and G729.
DHCP	This is the protocol (communication procedure) for automatically configuring the network settings. The
(Dynamic Host	DHCP server automatically configures the network settings for the network's DHCP clients.
Configuration Protocol)	
DHCP Server	This is the server that automatically assigns DHCP.
	Information that can be assigned to client such as IP address, subnet mask, IP address of gateway and DNS server, and the like are set; this information is provided to accessing clients; and when the
	communications are ended, the address is automatically recovered and assigned to other computers.
DNS	Used in TCP/IP networks, this is a system related to the actual IP address and the name affixed to
(Domain Name System)	computer.
DNS Server	This is the computer that possesses information related to IP address and name affixed to computer,
2110 001 101	and that responds to inquiries from outside.
DSCP	This is the code (program) for deciding on the actions for routers, etc., in identifying and carrying out
(DiffServ Code Point)	transaction processing to suits the types of services (traffic) on the internet with various features such
,	as motion picture and voice. For this purpose, a TOS (type of service) field inside the IP packet is
	redefined as a DS (DiffServ) field, and in order to decide on actions that the DiffServ target node
	(such as router) performs on this DS field, a value is set which becomes the basis for quality of
IP address	service. This is the address (location number) affixed for the purpose of distinguishing all connected devices in
ir address	networks built on TCP/IP protocol.
IP Diffserv	Technology that identifies the types of traffic (this traffic is called services) transmitted and received
ii biiiseiv	by internet users, and offers communications quality (QoS: Quality of Service) that satisfies that type.
LAN	This is the approviation for local area naturally. It refers to small scale computer naturally
(Local Area Network)	This is the abbreviation for local area network. It refers to small-scale computer networks.
MAC address value	This is the ID number that is assigned to be unique for each Ethernet card. There is no duplication of
	this number in Ethernet cards worldwide.
NATT LAIATT LU	This phone also has a unique MAC address.
NAT-Traversal (NAT Translation	This is the mechanism for carrying out address translation for communications between hosts within
Function)	the organization which have private IP addresses and hosts on the internet having a global IP address.
	A global IP address is an IP address used on the global internet that is unique, while a private IP
	address refers to the IP address used only within architectures that are not connected to the internet.
Ping	This is the program for diagnosing TCP/IP network such as internet and intranet. When an IP address
(Packet Internet Groper)	to be investigated whether or not it is connected is specified, data is sent using ICMP, and the
, , , , , , , , , , , , , , , , , , ,	network is diagnosed based on whether the other party replies.
Private-CA	Private (user) certificate used for 802.1x authentication.
Root-CA	Root (certification authority) certificate used for 802.1x authentication.
RTP (Real-time Transport	Real-time data transport protocol. RTP is designed on the assumption of being used in applications
Protocol)	such as for remote conferencing making use of image and voice, and has the objective of transporting
	the image and voice data in a form appropriate for real time. In RTP, data is divided into packets
CID (Canalan Indiana)	based on unit time and transported with the time information of data added to the packets.
SIP (Session Initiation	This is one of the call control protocols and used in internet calls employing VoIP, and the like. The
Protocol)	transport function, caller number notification function and others, when compared to similar protocols, provide functions close to that of the public telephone network, and the time required for connection is
	also short.
	מוסט סווטו ג

Glossary

SIP Domain	This is the domain for offering services to the SIP user.
SSID	This is the ID used in wireless LAN communications for identifying the network.
Static NAT(SNAT)	This is the static NAT table settings. Refer to the NAT-Traversal column with regard to NAT.
STUN (Simple Traversal of UDP Through NATs)	Protocol used for traversing NAT using UDP. The traversing of NAT by UDP packets is realized through examining the router's mapping algorithm and the port number mapped to the external address of the NAT router.
Syslog server	Server that collects system logs.
TCP (Transmission Control Protocol)	This is the standard protocol used in internet. It bridges the IP of network layer and the protocols (HTTP, FTP, SMTP, POP, etc) above the session layer.
TCP/IP	This is the standard protocol used in the internet and intranets.
TFTP Server (Trivial File Transfer Protocol)	This is the simple protocol for transporting files between computers connected to the network. It is characterized by having no authentication function and allowing easy usage. It can be used for updating the settings file and firmware of WirelessIP 3000.
UPnP (Universal Plug and Play)	Technical specifications for enabling mutual recognition of devices connected to a network such as PC or peripheral devices. It was advocated by Microsoft® in 1999, and is being standardized by the Universal Plug and Play Forum. UPnP gathers together technologies such as XML, DHCP, SOAP, and GENA that are standard to the internet; and has the functionality for auto recognition of devices connected to a network, mutually exchanging information between devices, and exerting control.
Web Server	This refers to a computer that offers contents to be browsed through web browser.
Web Browser	This is an application for browsing web pages.
ciphering	This is the encryption of wireless LAN communications. This WirelessIP 3000 product supports 2 types of encryption methods, which are "WEP" and "WPA-PSK (TKIP)", for wireless LAN communications.
Subnet Mask	Within the IP address, this is the numeral that defines which bits are used in network address for distinguishing networks. The portion that is outside the network address becomes the host address for identifying the individual computers within the network.
Server	This is a computer or software that offers data or functionality in own possession to client computers in a computer network.
Signal (dBm)	Shows the wave strength of wireless LAN.
Jitter Buffer	The jitter size that can be tolerated in fulfilling the required quality of conversation differs according to the jitter buffer of the receiving device. The role of the jitter buffer is to store the arriving VoIP packets in the buffer and adjust the latency in the arrival times of packets prior to sending to end user. If the jitter buffer is made bigger the jitter certainly becomes less, but if the size is made too big intolerable delays in conversation are forced onto the end users.
Certificate	This is the data for authenticating the authenticity of the public key used for analyzing digital signatures. Although it is not possible, by the digital signature itself, to confirm whether the public key belongs to the person; based on the digital certificate belonging to the digital signature, it is possible via the certification authority to certify the creator of data as well as there being no tampering of data (this function can be realized by the digital signature itself).
Channel	Wireless LAN uses electromagnetic waves with frequencies in the 2.4 GHz band. The bandwidth is 2.400 to 2.497 GHz, and that range is used divided into 14 channels.
Default Gateway	This refers to device such as computer or router that represents the "entrance and exit" used when accessing computers outside the LAN. With regard to the IP address of an access location, if a specific gateway is not specified, data is sent to the host specified in the default gateway.
Beacon Interval	A Beacon is the packet sent at fixed intervals for the synchronization of wireless LAN communications. The beacon interval is the period of that fixed interval.
Firmware	This is the software incorporated into the device for the basic management of the hardware.

Glossary

Proxy Server	This is the computer that connects to the internet as an "agent" in place of internal computers that cannot directly connect to the internet, and is the boundary between the internet and the internal network of an enterprise.
Protocol	This is the communications procedure that must mutually be in accord when multiple computers are communicating. If the protocol differs, communications are not possible.
Router	This is the device for relaying data that flows in the network to other networks. It has the function of analyzing the protocol, looking at the address and selecting the route. In addition, all data of unsupported protocols is discarded.
Registration Server	This is the server for registering and managing the SIP user information.

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