MOSA 4491 User Manual

Edition 3.0

Update : 2008/06/23

DCC NO. 9171004703



1 Safety Instruction



- 1. Do not attempt to service the product yourself. Any servicing of this product should be referred to qualified service personal.
- 2. To avoid electric shock, do not put your finger, pin, wire, or any other metal objects into vents and gaps.
- 3. To avoid accidental fire or electric shock, do not twist power cord or place it under heavy objects.
- 4. The product should be connected to a power supply of the type described in the operating instructions or as marked on the product.
- 5. To avoid hazard to children, dispose of the product's plastic packaging carefully.
- 6. Please read all the instructions before using this product.

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Change History: Software Version 2.01.0							
We launch new hardware and previous hardware is phased out	We launch new hardware and previous hardware is phased out user-friendly management interface						
	Change History: Software Version from 1.00 to 1.05.0						
Add new function and bug fixed bug fixed							

2 Preface

MOSA 4491 provides many Virtual Ports that can do Forward function for customer. This products need to work with other MOSA IP-PBX/Gateway for Forward function.

2.1 Features

■ 100 sets of Virtual Ports

Unlike other MOSA IP-PBX that has fixed ports (2 \ 4 \ 8 \ 16 Ports), MOSA 4491 has 100 sets of virtual ports

By using Redirect Map function and working with MOSA IP-PBX, system can expand more extension ports and also penetrate traditional PBX

By using Redirect Map, extension Prefix can be assigned by this machine and extension suffix is assigned by MOSA IP-PBX. It can expand more extension ports and also penetrate traditional PBX

Call Forward Function

It has Call Forward function that redirect virtual port to other MOSA IP-PBX or to PSTN/Mobile phone.

Built-in Auto Attendant

MOSA 4491 had built-in auto attendant. It provides auto attendant for each incoming call and greeting can be recorded by extension phone set

■ Easy to Use and Configure

The same as other series of MOSA IP-PBX, it is easy to configure. Connect cable, input phone number and IP address via system console, then it is able to communicate with other MOSA IP-PBX around the world.

■ Allow to Use Private IP

MOSA 4600 can be connected to any MOSA products at any location around the world just through the private IP address behind NAT.

■ Users Can Configure Call Forward Number by Themselves

Each user can dial IP call to this system and configure Call Forward destination (number) and Offnet Forward destination (number)

Network Management

1. Complete Management Capabilities: Phone set, Console, Telnet and WEB

The machine provides the management tool via telephone set (by VODTEL's gateway), system console, Telnet and Web Browser. Users can configure or modify the setting through any telephone set, system console, or Telnet. System manager can browse information through PC to manage the system no matter where he is.

2. Web and FTP Software Update

By Web browser and the FTP server that is embedded into this machine. The machine provides file upload/download and firmware update.



3 Package Contents

MOSA 4491 package Includes:

- The MOSA 4491 Server
- Power Core and adapter
- RJ-45 network cable
- Rubber foot
- Console cable (optional)



4 General Descriptions

- 4.1 Panel
- 4.1.1 Front Panel



4.1.2 Rear Panel



4.2 LED indicator



LED Label			Description
Front	Link/ACT (Green)	ON	Network Linked Up
		FLASH	Sending/Receiving data packets
	100Mbps (Yellow)	ON	Transmission Rate is 100 Mbps
		OFF	Transmission Rate is 10 Mbps
Rear	PWR	ON	Power supply normal
	ALRAM	ON	H/W error is detected when diagnostic test is running.
	CPU/ACT	ON	CPU in normal operation
		FLASH	CPU is Running
		ON	Able to access to TIME SERVER
	TIME SRVR	FLASH	Trying to access to TIME SERVER
		OFF	NOT able to access to TIME SERVER
	NETMOSA	ON	Registered to NETMOSA
		OFF	Not registered to NETMOSA
		FLASH	Both NETMOSA and NETMOSA are configured, but only one server is registered.
	R-MAP	ON	Redirect.map is uploaded
		OFF	No Redirect.map is uploaded

4.3 Connector

Connector	Label	Description
Network	1	RJ-45 connector, cascaded from other Switch/Hub is suggested.
	2, 3, 4, 5	RJ-45 connector, connect to LAN or cascaded to next Switch/Hub is suggested.
RJ-45	CONSOLE	Connect to system console. Connect to 9 pin serial port (RS-232) of PC via Console cable.



5 Application Structure

MOSA 4491 and MOSA IP-PBX work together can achieve many functions. Here is the illustration.



One step or 2 steps dialing incoming call from trunk (PSTN, ITSP (Internet Telephony Service Provider)) or line (Analog Ext., SIP Ext.) of MOSA IP-PBX to MOSA 4491 can be redirected to line (Analog Ext., SIP Ext.) of remote MOSA IP-PBX directly or remote trunk (PSTN, ITSP (Internet Telephony Service Provider)) of remote MOSA IP-PBX directly.

By using the Redirect map function of MOSA 4491, one-step dialing can penetrate traditional PBX and it also expands usable extension number and no longer limited to the extension table of single MOSA 4600 Plus







6 Basic Configuration

To configure the function of this machine, configure basic settings for PC to connect this machine is required for configuration.

6.1 Connection of Network Cable

This machine provides 5 RJ-45 Ethernet switch port. It detects straight through and crossover network cable automatically. Any ports can be connected to network. The connection figure below is for your reference.



Please do confirm

- The Link/Act LED of PC network card is ON or blinking.
- 100Mbps (yellow) LED is ON and Link/ACT (green) LED is ON or blinking at network port.

Otherwise, change port or LAN cable and retry it again

Note: To connect PC is for the configuration of this product. When configuration is done, no PC is required to make or accept calls and all PCs can be shut down.

6.2 Open Server Port to penetrate NAT

In additional to connect this machine to Internet directly, MOSA 4491 may connect to IP Sharing device and define the private IP Address to communicate with the other MOSA IP-PBX.

In the table followed, the port number used in MOSA 4491 is listed. Open the ports with port number listed in the table to the firewall.



Packet type	Signaling Port Number
Call Control	UDP 2000
RTP Voice Packet	UDP 4000 – 4199
FTP	TCP 21
Web	TCP 80
Telnet	TCP 23

Description:

Normally every type of server uses the specific service port number, e.g. WEB server uses the port of TCP 80, and FTP server uses the port of TCP 21. The configuration is to set mapping from the specific port number to the internal private IP Address.

Therefore IP Sharing will transfer the packet, which is delivered to the specific port number, to the corresponding private IP Address. For example, if the private IP Address 192.168.0.2 is used in the LAN network, it should be mapping to a corresponding port number (TCP port 80 of IP Sharing device \leftarrow >, 192.168.0.2 mapping port 80). Hence, any packets to TCP port 80 will be transferred to TCP port 80 of IP Address "192.168.0.2". In this machine, UDP port 2000 is used for Packet of Control, there should be a mapping port on the IP Sharing. (UDP port 2000 of IP sharing device \leftarrow >IP of this machine, UDP port 2000).

Therefore, open Server Port at IP sharing device can let devices inside and outside of firewall can communicate.

6.3 Connection of Console Cable

There is Console port on this box that can connect to PC for initial settings. You can use Web Browser to connect default IP: 192.168.0.2, so console connection is not necessary required.



6.4 Configuration of My Phone Number

My Phone Number means the phone number of this machine. Please configure the number the same as the main PSTN phone number (full number) of your company.

Assume the phone numbers you want to input are

Country Code: 886 (Taiwan)



Area Code : 2 (Taipei)

Phone Number : 2026518

Attention: No matter whether you will make long distance or international call or not, Input the 3 items above is required

Start IE browser and input <u>http://192.168.0.2</u> (Default IP address of this machine: 192.168.0.2, Subnet Mask: 255.255.255.0. Please configure the Subnet of your PC to connect this machine)

User Name: WEB, and password is not required

🕗 about:blank - Microsoft Internet Ex	plorer								IX
檔案(F) 編輯(E) 檢視(V) 我	的最愛(A) 工具(T) 説明(H)							
←上一頁 - → - 🙆 🙆 🖓	🔍 搜尋 🗟 我	的最愛 🔊媒體	3	• 🎒 🖻	E 🎎				
網址① 🕘 http://192.168.0.2/				•	⊘移至	÷	繁簡轉換	繁	简
									
輸入網路?	咨碼				? ×				
2	詰动入你的使用去	5夕辐脚灾难。							
	網站	192 168 0 2							
	新图	SIP-Trunk							
	^{範囲} (市田老夕稲/町)	WEB			_				
	∞711-11-11-144(<u>0</u>) ▽21車(10)				- 1				
		ZUWRASSTER # 98.400	ı						
	粉這個密碼仔	到您的密碼清里()		Der Ock					
		<u>n</u>							
									-
⑥ 正在開啓網頁 http://192.168.0.2	2/					🥝 網	際網路		- //.

Web Path : 1.System Config.\1.1.Basic Information

Click Apply

when it is done.

	My Phone Number
Country Code:	886
Area Code:	2
Phone Number:	2026518

Restart is required At left-bottom coner of Web page



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		¢	🕈 Restart - Microsoft Internet Explorer		IX
		Г			
		Ľ	192.168.0.2		
IP Search		L	Warm Restart	-	
Phone Number Search Show Route		L	Apply		
		L			
-Restart-			新 「 「 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」 」 「 」 」 「 」 」 「 」 」 「 」 」 「 」 」		
	Select Warm Restart	16	z () j j j w alerstalene		

6.5 Verification and Check of Management Web

When you had entered WEB management interface, check or tune settings if required. If settings are modified, Warm Restart at last section can be done here only.

6.5.1 Basic Information

Web Path : 1.System Config.\1.1.Basic Information



			Арр	ly]	Cancel		
	Information						
Region ID:	0 (Taiwan)	Ther	e is no	differ	rence		
Software Version:	2.01.0	if it i	is (is no	t) Tai	wan		
BootRom Version:	Rom Version: 1.00						
Hardware Version:	1.00	1.00					
Up-Time:	2 day 4 hr 24 min 24	4 sec					
MAC Address:	00-03-62-80-7B-30)					
Location Name:							
	Time Configuration			Toi	dentify this b	ox	
Time Source:	Auto Sync	*		easi	ly, input ID	011	
Date:	2008/05/23			nam	ne here		
Time:	16:08:50						
Time Zone:	Beijing, Hong Kong, Si	ingapore,	Taipei		*		
DayLight Saving:	Off	×					
	UDP Port Configuration	on	If it is chang	s not (re it a	correct, nd click		
Call Control:	2000		Apply	,0 n a /	nd enex		
RTP Base:	4000						
	DISA						
IP Call:	Enable	*					
	My Phone Number						
Country Code:	886						
Area Code:	2		As Ch	the ex	xample,		
Phone Number:	2026518		86	inge	10		
	My ID		21	0 < 10			
VODNET ID:	28 - 6 - 202 : 6518	Get	462	8643	4		
Netmosa ID:							
1	Web Management Passv	vord					
User Name:	WEB						
Password:	•••••						
Confirm Password:							

6.5.2 IP Settings

The default IP of this machine is 192.168.0.2. If user doesn't want to change the IP address of this machine, then IP sharing device has to use subnet 192.168.0.X. If IP sharing device does not assign LAN as subnet 192.168.0.X, but subnet 10.13.6.X, then this machine has to change and use subnet 10.13.6.X, such as IP: 10.13.6.2, subnet Mask: 255.255.255.0

Web Path : 6.IP Settings





6.5.3 Restart

To insure that all setting take effect, restart this machine when all configuration is done. To restart this machine, click –**Restart-** at left bottom of Web page to do restart.



Wait for a moment after the system restarts.

If the Router is also need to restart, also restart it. Restart router first than MOSA 4600 Plus is suggested.

7 Function Configuration

7.1 Configure Authentication of Member

MOSA 4491 has 100 virtual channels for each member. Users have their own accounts and passwords number for authentication for incoming call. They can change the call forward destination number any time and also avoid being changed by others. Each user needs to input channel number and password to configure it.

Here is the method to configure Member

Specify the Channel that user use and input the User ID (default: 0) and password that user will dial for authentication. Input password again for verification.

Web Path : 2.System Advanced 2.1.Member

	Channel		User ID	Password	ConfirmPassword
Add:	2	*	2234	••••	••••
Delete:	Select	۲			

7.2 Configure Forward Number

When authentication is done for incoming call, user can change call forward destination number any time.

Incoming call to MOSA 4491 can be forward to the destination below :

- To Analog FXS port of remote MOSA 4600 Plus
- To SIP extension of remote MOSA 4600 Plus
- To local PSTN call (Offnet Forward) via remote MOSA IP-PBX or ITSP (Internet Telephony Service Provider)

Each user can make call to 4491 and the system greeting help you to configure the Forward To destination.



- (1) Make VoIP call to MOSA 4491 from other MOSA IP-PBX and you hear the system greeting.
- (2) Input access code #1* of instruction greeting. For access code, please refer to 9.8 Web Path: 2.System Advanced\2.4.Behavior Setting.
- (3) By the instruction of greeting, input User ID. For the configuration of User ID, please refer to last section 7.1 Configure Authentication of Member. Press # when it is done.
- (4) Input Password of User ID
- (5) Select service item. Press "1" to enter Forward configuration item.
- (6) Press "0" to enter Forward Number configuration
- (7) Input Forward Number and # to finish
- (8) The system plays the number you had dialed. Press "0" to confirm
- (9) You hear the successful configuration greeting

Call forward number of destination also can be configured at Web page

Configure call forward number at Web page

Web Path : 1.System Config.\1.2.Channel

				Apply	Cancel
		Membe	er Configuration		
Ch	User ID	Sfx Adm Ctrl	Forward To	Offnet T	o
{001, {002, {003, {004,	0 0 0 0	, 01, EN , DIS, , 02, EN , DIS, , 03, EN , DIS, , 04, EN , DIS,	82263139,		},

7.3 Make Call to Ext. of MOSA 4491 from MOSA IP-PBX

Other MOSA IP-PBX serial products, such as MOSA 4600 Plus, user can make call to this machine or its extension line.

The Phone Number and VODNET ID of MOSA 4491 is shown below

Phone Number can be the same or different from VODNET ID

Web Path : 1.System Config.\1.1.Basic Information

1	My Phone Number	
Country Code:	886	
Area Code:	2	
Phone Number:	82268888	
	My ID	
VODNET ID:	28 - 6 - 202 : 6518 G	et (-OK-)
Netmosa ID:		

Example 1: User of MOSA 4600 Plus at Kaohsiung makes call to FONEMOSA 4491 at Taipei

Assume the phone number of Taipei MOSA 4491 is 886 2 82268888 and VODNET ID is 2026518

Dialing Method: User at Kaohsiung picks up phone and hear dial tone, and then dial **02 8226 8888# or **2026518#, later, you hears the system greeting of MOSA 4491

Example 2: User of MOSA 4604 Plus at Beijing make call to channel 22 of MOSA 4491

- Channel 22 of MOSA 4491 is configured to Forward To another MOSA 4600 Plus with VODNET ID: 2006628
- Assume the phone number of Taipei MOSA 4491 is 8226-8888

Dialing Method: User at Beijing picks up phone and hear dial tone, and then dial **00 886 2 8226 8888 22#. This call is forward to MOSA 4600 Plus 2006628

7.4 Make Call to MOSA 4491 then Offnet to PSTN or Mobile Phone

7.4.1 Configure MOSA 4491

In addition to Forward Number at previous section, extra Offnet Number is required. Incoming call is forward to the machine with Forward Number and the machine make outgoing trunk call to Offnet Number

User can configure this function via phone set.

- (1) Make VoIP call to MOSA 4491 from other MOSA IP-PBX and you hear the system greeting.
- (2) Input access code #1* of instruction greeting. For access code, please refer to 9.8 Web Path: 2.System Advanced\2.4.Behavior Setting.
- (3) By the instruction of greeting, input User ID. For the configuration of User ID, please refer to section n 7.1 Configure Authentication of Member. Press # when it is done.
- (4) Input Password of User ID
- (5) Press "2" according to instruction greeting to enter Offnet Number.
- (6) Input Offnet Number and # to finish
- (7) The system plays the number you had dialed. Press "0" to confirm
- (8) You hear the successful configuration greeting
- (9) Hand off the phone

Offnet To number of destination also can be configured at Web page

Configure Offnet To number at Web page



Web Path : 1.System Config.\1.2.Channel

						Apply	Cano	el:
			IV	lemb	er Configuration			
Ch	User ID	Sfx	Adm	Ctrl	Forward To	Offnet T	o	
{001, 0 {002, 0 {003, 0 {004, 0		, 01, , 02, , 03, , 04,	en En En En	, DIS, , EN, , DIS, , DIS,	862164451111,	136056	57888 } }, },	^

7.4.2 Configure Remote MOSA IP-PBX

Due to charge of Offnet Forward trunk call should be paid by the owner of remote MOSA IP-PBX or ITSP, so open permission of remote machine for the MOSA 4491 is required.

Configuration on remote MOSA IP-PBX/Gateway:

Add a set of number at **Permitted Phone Number for Offnet Forward** field and this phone

number has to be the same as the Offnet Number of MOSA 4491

Configuration is shown below: (Example: configuration at remote MOSA 4600 Plus)

Phone Number: For Outbound Forward Number (1.System Config.\1.7.Offnet Forward), full number is not required. System can compare the first N digits. For example, input 0982, then all numbers with prefix 0982 is able to do outbound call.

Trunk : Select trunk interface

- Disable: Trunk call is not allowed
- FXO: Trunk call from FXO is allowed
- IP: Call from SIP Trunk is allowed

Web Path: 1.System Config.\1.7.Offnet Forward

	Phone Number	Trunk	
Add/Modify:	01360567888	FXO	~
Delete:			
Search List:		Search	

For example, this MOSA 4491 is located at Taipei and incoming call will be forward to Shanghai 21-6445-1111 and it will be offnet to PSTN 1360567888 at Beijing.

Parameter	Channel 2 of This MOSA 4491 (Taipei)	MOSA (8621-6445-1111, Shanghai) that offnet to PSTN
Control	Enable	-
Forward to :	862164451111	-
Offnet to :	01360567888	-
Permitted Phone Number for Offnet forward	-	01360567888

7.4.3 Dialing Example

A MOSA 4600 Plus user make call to the channel 2 of MOSA 4491 at Taipei, then the call is routed to Beijing PSTN phone number 1360567888 via MOSA (862164451111) at Shanghai finally.

- Assume that MOSA 4491 at Taipei is 8226-8888
- The Channel 2 of MOSA 4491 is configured **Forward To** MOSA at Shanghai, and then **Offnet To** Beijing PSTN number 1360567888.
- MOSA at Shanghai had configured permission to PSTN number 1360567888 at Beijing

Dialing method: Kaohsiung user hook off and hear dial tone, then dial **02 82268888 02#, the call is route to 1360567888 at Beijing finally.

7.5 Make call to MOSA 4491 then route to other MOSA IP-PBX

When DISA of MOSA 4491 is activated, number can be dialed is not limited to 100 virtual channels for user that make call to MOSA 4491, it also includes 1000 sets of extension at extension table. User can make call to other MOSA IP-PBX if Extension Table and Phone Book in MOSA 4491 is pre-configured.

7.5.1 Configuration of Extension Number

Other MOSA IP-PBX product can be configured as a Prefix/Ext. number in Extension Table of MOSA 4491. User that make call to this machine can dial to other device again by this Prefix/Extension table.

For example: There is other MOSA IP-PBX with phone number 886218408198. The administrator hope MOSA 4491 user can dial 8000 to reach that MOSA IP-PBX. Please input the information below and then click Apply.

Input VODNET ID directly to Phone Number field is also OK, such as 286 200 4341.

Web Path: 1.System Config.\1.3.Extension Number

	Prefix/Ext. No.	Phone Number	Туре	
Add/Modify:	8000	886218408198	iPBX 🗸	

Note: Here is the Restrictions of Prefix/Extension table

The length of Prefix/Ext. code is 1-5 characters. In principle, you can't define a new prefix number starting with the number that has been defined previously. For example, "33" is defined as a prefix number, then any numbers starting with "33", like "330", "3312", can not be defined as a prefix number. However, "31", "32", or "34" are OK. Another example, "555" is defined previously, then "5551" or "55522" can not be defined as a prefix/ext. number, but "551" or "552" or "553" ...etc. is OK.



7.5.2 Configuration of Phone Book

At last section, we add MOSA IP-PBX to the extension table of MOSA 4491, then we should add information of that MOSA IP-PBX into MOSA 4491's Phone Book. By this way, incoming call can be redirected to correct destination.

• If the IP address of remote MOSA IP-PBX is fix public IP, then we can add the phone number and IP address to static Phone Book.

Web Path: 4.Phone Book

	Phone Number	IP Address	Control Port
Add/Modify:	886218408198	218.211.67.21	2000

These information can be found on the System Info of management page at other MOSA IP-PBX (for the example of MOSA 4600 Plus)

🏉 System Information - Window	vs Internet Explorer		
🙋 http://218.211.67.55:8805/dynafo	rm/sysInfo.asp		~
C.v.	atom Information		^
Basissa UD:			
Regional ID:	0 (Taiwan)		
MAC:	00-03-62-80-4C-86		
Location Name:			
Software Version:	2.02.1		
Phone Number:	886218408198		
VODNET ID:	28 - 6 - 200 : 4341		
Card Type:	4 PORT_FSO		
Analog Channel:	Line 2 / Trunk: 2		
SIP Channel:	Line : 72 / Trunk: 24		
Public IP Address:	218 211 67 21 / 2000		
IP Address:	218.211.67.21/2000/5062		
Subnet Mask:	255.255.255.0		
Default Gateway:	218.211.67.254		
Date:	2008/05/30		
Time:	18:53:25		
Parking Security Key:	0		
Voice Mail:	Ready		
		-	~
完成	😜 網際網路	🔍 100%	•

- If numbers configured at MOSA 4491's Prefix/Ext. table are VODNET ID, then configuration for phone book in section is not required. However, the MOSA IP-PBX of that VODNET ID should connect to Internet. If it is located under VPN, then configuration of phone book still required.
- ◆ If numbers configured at MOSA 4491's Prefix/Ext. table are VODNET ID, however, the MOSA IP-PBX (or the router that MOSA IP-PBX connect to) does not use fix public IP, use this phone book to do learning is required.

Input VODNET ID (such as 2862004388), IP: 0.0.0.0, Port: 0

Web Path: 4.Phone Book

	Phone Number	IP Address	Control Port
Add/Modify:	2862004388	0.0.0.0	0

8 Other Configuration

8.1 Configuration of Operator

MOSA 4491 series provides the operator mode below:

- > Built-in DISA: Auto Attendant that has greeting and answer incoming call
- > Local Operator: Operator is located at some IP-PBX that the virtual channel connect to
- Network Operator: Operator is located at some IP-PBX that is defined at extension table of this machine

8.1.1 Built-in DISA

The parameter below decide the behavior of DISA Answer and deal with incoming IP Call Enable : Activated and process / Disable : No action

Attention: If this function is Disabled, all management function of virtual channel is invalid, including management system for administrator and IVR.

Web Path: 1.System Config.\ 1.1.Basic Information

	DISA		
IP Call:	Enable	*	

Process of Incoming Call

For incoming number from user, MOSA 4491 take action according to the table below:

Dialed number from user	Action
Extension No.	Forward to the extension of MOSA IP-PBX
Operator Code	Forward to the MOSA IP-PBX that is defined for virtual operator channel.
Function Code	#1* or *0 to enter voice management system
None of above	Send greeting "The number you dial is invalid". If this case happens 3 times, system disconnects the call.

For incoming IP call, MOSA 4491 process it according to the workflow below.





8.1.2 Local Operator

When DISA for IP call is Enabled for incoming IP call, MOSA 4491 redirect call to operator if user dial Operator Code.

• Configuration of Operator Code

Web Path: 2.System Advanced\2.4.Behavior Setting

	Operator Se	etting
Operator Code:	0	~
Assign Operator to (Channel):	N/A	~

• Specify a channel as operator

Web Path: 2.System Advanced\2.4.Behavior Setting



	Operator	Setting
Operator Code:	0	*
Assign Operator to (Channel):	1	*

8.1.3 Network Operator

Operator can be assigned to another device through IP network. When incoming call user dial operator code, system search local operator first. If local operator (Assign Operator to (Channel)) is set to N/A, system will assume that Operator is defined on another device. From the Network Operator Extension Number configuration, system will find the Operator for this call. (Of course, the Network Operator Extension Number has to be configured in Prefix/Ext. table in advance.)

In the following example, the Operator is configured on equipment with Prefix code 81, which is a MOSA 4600 Plus with phone No. 886-2-8226-8881, as a Network Operator.

Steps of configuration:

1) Web Path: this machine: 2.System Advanced\2.4.Behavior Setting Set **Assign Operator to (Channel)** as "N/A"

	Operator Se	tting
Operator Code:	None	~
Assign Operator to (Channel):	N/A	~

2) Add Prefix/Ext. number of network operator to the Prefix/Ext. table of MOSA 4491. For example, the phone number of network operator is 886282268881 and we use 81 as its Prefix/Ext. number.

Web Path: 1.System Config.\1.3.Extension Number

	Prefix/Ext. No.	Phone Number	Туре	
Add/Modify:	81	886282268881	Phone	~

3) Configure **Network Operator** of this machine as the Prefix/Ext. of network operator. Web Path: 1.System Config.\1.3.Extension Number

	Network Operator	
Extension Number:	81]

8.2 Greeting of DISA

About Greeting

Any extension of MOSA IP-PBX can dial into this machine and record the message of greetings. Totally you may have 4 sections of greetings and max 30 seconds for each section. You can save the greetings to PC file and then upload the file to other machine via FTP.



You can also use the greeting file from MOSA 4600 Plus. Rename these file name as below and upload it to this machine.

For example:

File Name	Type of Greetings	Description of Greetings	Example of Messages
grt_1	Greeting (1)	The Greetings for office hour	Good day, this is XX XXX, please dial extension number or 0 for Operator
grt_3	Greeting (3)	The message when the number is wrong or can not be recognized	The number you dialed can not be recognized, please dial again
grt_4	Greeting (4)	The message for waiting, the call is transferring	Thank you, please wait a moment
grt_7	Greeting (7)	The message that extension is unable to answer the call. (May be network problem or line problem)	There is problem or no answer for this extension, please dial other extension number or 9 for operator

Attention: If greeting is recorded by phone set, it takes effect immediately without doing restart. If it is uploaded by FTP, it takes effect after Warm Restart.

8.2.1 Method to Record Greeting

User that has Access Code and Password of Administrator is able to record greeting. The information of Administrator can be configured below.

Web Path: 2.System Advanced 2.4.Behavior Setting

	ystem P hone Setting Programm ing	
Access Code :	*0	
Password:		
Confirm Password:		

(1) Entering the Management Mode

Hook off the phone set, make call to this machine, dial Access Code + Password (default *0 0000) to enter the management mode, \rightarrow hear the tone of "DuDu...."

(2) Recording the 1^{st} section

Dial 991 \rightarrow * \rightarrow start to record \rightarrow # (end the record)

(3) Storing the 1^{st} section

Dial $9\# \rightarrow$ hear the tone of "DuDu..." $\rightarrow \#$



(4)	Recording	the 2 nd section
	Dial	99 2 \rightarrow * \rightarrow start to record \rightarrow # (end the record)
(5)	Storing the	e 2 nd section
	Dial	9# → hear the tone of "DuDu" → #
(6)	Recording	the 3 rd section
	Dial	99 3 \rightarrow * \rightarrow start to record \rightarrow # (end the record)
(7)	Storing the	e 3 rd section
	Dial	9# → hear the tone of "DuDu"→ #
(8)	Recording	the 4 th section
	Dial	99 4 \rightarrow * \rightarrow start to record \rightarrow # (end the record)
(9)	9 Storing	the 4 th section
	Dial	9# → hear the tone of "DuDu" → #
(10)	Recording	the 5^{th} section
	Dial	99 5 \rightarrow * \rightarrow start to record \rightarrow # (end the record)
(11)	Storing the	e 5 th section
	Dial	9# → hear the tone of "DuDu" → #
(12)	Recording	the 6^{th} section
	Dial	99 6 \rightarrow * \rightarrow start to record \rightarrow # (end the record)
(13)	Storing the	e 6 th section
	Dial	9# → hear the tone of "DuDu" → #
(14)	Recording	the 7 th section
	Dial	99 7 \rightarrow * \rightarrow start to record \rightarrow # (end the record)
(15)	Storing the	e 7 th section

Dial $9\# \rightarrow$ hear the tone of "DuDu..." $\rightarrow \#$

Attention: Don't forget to dial additional "#" to end the last record, then start the next section.

8.2.2 Method to Listen Greeting

- (1) Hook off the phone set, make call to this machine, dial Access Code + Password (default *0 0000) to enter the management mode, \rightarrow hear the tone of "DuDu...."
- (2) Listening the 1st message : Dial 961 \rightarrow If you like to stop, just dial #



- (3) Listening the 2^{nd} message : Dial 962 \rightarrow If you like to stop, just dial #
- (4) Listening the 3rd message : Dial 963 \rightarrow If you like to stop, just dial #
- (5) Listening the 4th message : Dial 964 \rightarrow If you like to stop, just dial #
- (6) Listening the 5th message : Dial 965 \rightarrow If you like to stop, just dial #
- (7) Listening the 6th message : Dial 966 \rightarrow If you like to stop, just dial #
- (8) Listening the 7th message : Dial 967 \rightarrow If you like to stop, just dial #

8.3 Instruction Greeting for User

When user make call to this machine, input access code of instruction greeting and then input user account and password according to the instruction. Operate it according to instruction greeting and users are able to configure Forward Number and Offnet Number. Record instruction greeting is required for this system. Max 99 sections and 30 minutes totally are available for this machine. Upload Instruction Greeting by FTP client software to this machine is also OK. Please refer to 12 Dialing Flow Chart

Example

Greeting	Example of instruction greeting
01	Please input user account, end with <#> sign
02	Please input password
03	The user account you dial is not correct. Please input again.
04	To configure Forward Number, please press <1>
	To configure Offnet Number, please press <2>
	To listen current number, please press <3>
	To change password, please press <4>
	To end the process, please press <5>
05	The password you dial is not correct. Please input again.
06	The number you dial is not correct. please try again later with new number
07	You had entered
08	Configuration
09	Please try again
10	To configure Forward Number, please press <0>
	To configure Prefix Number, please press <1>
	Or press <2> to return previous level
11	Please input Offnet Number, end with <#>
12	The Forward Number you had configured is
13	Thank you, good-bye.



Greeting	Example of instruction greeting
14	Please input Forward Number, end with <#>
15	
	Please input Prefix Number, end with <#>
16	Press <0> if it is correct
	Press <1> if it is not correct
17	Number is not correct, please dial <#> and input again
18	No number is configured currently
23	Cancel
24	Please input new password, end with <#>
25	Change successfully
26	Password exceeds 6 digits. Please dial <#> and input again
27	Configuration is failed
28	Configuration is successful
29	To listen Forward Number, please dial <0>
	To listen Offnet Number, please dial <1>
	To return to previous level, please dial <2>
30	The Offnet Number you had configured is
31	This Account is suspend now, please contact system administrator

8.3.1 Method to Record Instruction Greeting

User that has Access Code and Password of Administrator is able to record greeting. The information of Administrator can be configured below.

Web Path: 2.System Advanced 2.4.Behavior Setting

System Phone Setting Programming					
Access Code :	*0				
Password:	••••				
Confirm Password:					

- (1) Hook off the phone set, make call to this machine, dial Access Code + Password (Default *0 0000) to enter the management mode, \rightarrow hear the tone of "DuDu...."
- (2) Recording the 1st section

```
Dial 77 01 \rightarrow * \rightarrow start to record \rightarrow # (end the record)
```

(3) Storing the 1^{st} section

Dial 9# → hear the tone of "DuDu..."→ #
(4) Recording the 2nd section

Dial 77 02 → * → start to record → # (end the record)

(5) Storing the 2nd section

Dial 9# → hear the tone of "DuDu..."→ #

(6) Recording the 3rd section

Dial 77 03 → * → start to record → # (end the record)

(7) Storing the 3rd section

Dial $9# \rightarrow$ hear the tone of "DuDu..." $\rightarrow #$

(8) And so on...

Attention: Don't forget to dial additional "#" to end the last record, then start the next section.

8.3.2 Method to Listen Instruction Greeting

- (1) Hook off the phone set, make call to this machine, dial Access Code + Password (default *0 0000) to enter the management mode, → hear the tone of "DuDu...."
- (2) Listening the 1st message : Dial 77 01 → 0 (listen recording) → # (end) → Press # to listen next section
- (3) Listening the 2nd message : Dial 77 02 → 0 (listen recording) → # (end) → Press # to listen next section
- (4) Listening the 3rd message : Dial 77 03 → 0 (listen recording) → # (end) → Press # to listen next section
- (5) And so on...

8.4 Application of Forward Map

When there are many MOSA 4491 and they all use the same Forward number, or only slight modification is enough, you can use this Forward.map file function and modification for each individually channels via Web is not required.

Forward.map is a text file and it records the Forward To number of each channel. If there is no extra Forward configuration at individual channel, system use default configuration from Forward.map.

Use Windows Notepad software to write the example below.

1,886282263391

2,886282263392

Means the 1st port is forwarded to 886282263391



Means the 2nd port is forwarded to 886282263392

Note: field is separated by ","

💋 FOR WARD.MAP - 記事本	
檔案(F) 編輯(E) 格式(O) 說明(H)	
1 ,886282263391	_
2,886282263392	
3,886282263393	
4 ,660262203394 5 886282263395	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-
1	▶ //

Save it and upload this file to machine. Web Path: 5.File Transfer

	Put File from PC to this Device	
Select File:	F:\Documents\4491\map\FORWARD.MAP 瀏覽 Clear]
	Send Keep Original IP (CFG only) 🗹	
Result:	N/A	

Or you can upload FORWARD.MAP to the folder under /disk0 by FTP client software

FIP WS_FTP95 LE 192.16	58.0.91							
Local System				Remo	te System			
C:\Program Fil	les∖WS_FTP		•	∕di	sk0			•
Name	Date	Size	ChgDir		Name	Date	Size	ChgDir
Complete.wav complete.wav connect.wav merror.wav iii license.wri prorder.wri whatsnew.txi ws_ftp.dll wS_FTP.hlp mi WS_FTP ini	 990105 08: 1061107 10 		MkDir View < Exec ···· Rename Delete Refresh	· 구 구 구 구 구 · 구 구 구 구 평 688 688 688 688 688 688 688 688 688 6	ORWARD.MAP VPN_01 VPN_02 VPN_03 VPN_04 VPN_05 VPN_06 VPN_06 VPN_07 VPN_08	1060101 02:37 1060101 00:28 1060101 00:28 1060101 00:28 1060101 00:28 1060101 00:28 1060101 00:28 1060101 00:28 1060101 00:28		MkDir View Exec Rename Delete Refresh
•			DirInfo					DirInfo
		ASCII	Binary	ſ	Auto			
150 Opening ASCII mode data connection Received 2730 bytes in 0.2 secs, (118.72 Kbps), transfer succeeded 226 Transfer complete								
<u>C</u> lose	Cancel	<u>L</u> ogWnd	<u> </u>	lp	Dptions	About	E	i <u>x</u> it

Then restart it. To restart this system, click left-bottom corner of Web page - Restart -





Wait for few seconds of restart procedure

After it is restarted

Web Path: 2.System Advanced\ 2.3.Forward MAP, and it shows information of FORWARD.MAP

MOSA	A 4491	
System Info		Forward MAP
lome		Page 1 / 5 Show << >>
1.System Config.	Channel	Forward Number
1.1.Basic Information	1	886282263391
1.2.Channel	2	886282263392
1.3.Extension Number	3	886282263393
1.4.Broadcast Auth.	4	886282263394
2.System Advanced	5	886282263395
2.1.Member	6	
2.2. Offnet MAP	7	
23 Forward MAP	8	4
2.4 Bobovior Sotting	9	2
2 ID Cotting	10	4

8.5 Application of Offnet Map

When there are many MOSA 4491 is located at different location and its PSTN Offnet To numbers are the same, or only slight modification is enough, you can use this Offnet.map file function and modification for each individually channels via Web is not required.

Offnet.map is a text file and it records the mapping of Offnet To number via Forward Number. If there is no extra configuration of Offnet To number at individual channel, system use default configuration from Offnet.map.

In practical application, the same Offnet To PSTN number can be dialed from different MOSA IP-PBX. In other words, different Forward Number can map to the same Offnet To Number. By this way, make call to PSTN via Offnet To number can has different route choices.

Use Windows Notepad software to write the example below.

OFFN	ET.MAP - 🕯	記事本			_	
檔案(F)	編輯(E)	格式(0)	說明(H)			
886282	263933	,12345	6789012	918		
886282	263934	,12345	6789012	919		
886282	263935	,12345	6789012	920		
886282	203930	,12345 12345	0789012 6780012	921		
886282	263938	,12345	6789012	923		-
•						

Ahead from Offnet To number, then followed by Forward Number.

Save it and upload this file to machine.



Web Path: 5.File Transfer

	Put F	ile from PC to this Devic	е
Select File:	F:\Documents	\4491\map\OFFNET.MAP	瀏覽 Clear
	Send	Keep Original IP (CF	G only) 🗹
Result:	N/A		

Or upload this OFFNET.MAP file by FTP software to the /disk0 folder of this machine.

🗊 WS_FTP95 LE 192.168.0	.91									<u>_ ×</u>
Local System] [Remote	: Cystem				
C:\Program Files	s∖WS_FTP		•	(/dis	sk0				•
Name	Date	Size	ChgDir			Name	D,	ate	Size	ChgDir
Complete.wav connect.wav connect.wav error.wav license.wri prorder.wri whatsnew.txt ws_ftp.dll WS_FTP.hlp WS_FTP.ini	990105 08: 990105 08: 990105 08: 990105 08: 990105 08: 990105 08: 990105 08: 990105 08: 1061107 10		MkDir View Exec Rename Delete Refresh Dirlnfo	< .>	FU FV FV FV FV FV FV FV FV FV FV	PRWARD.MAP PN_01 PN_02 PN_03 PN_04 PN_04 PN_05 PN_06 PN_06 PN_07 PN_08	1060101 1060101 1060101 1060101 1060101 1060101 1060101 1060101 1060101	02:37 00:28 00:28 00:28 00:28 00:28 00:28 00:28 00:28 00:28 00:28		MkDir View Exec Rename Delete Refresh Didnfo
			• Bi	naru	ر	Auto				
150 Opening ASCII mode Received 2730 bytes in 0 226 Transfer complete	data connection .2 secs, (118.72 Kbr	os), transfer succeede	d	,						▲ ▼
<u>C</u> lose	Ca <u>n</u> cel	<u>L</u> ogWnd		<u>H</u> elp		<u>O</u> ptions		bout		E <u>x</u> it

Then restart it. To restart this system, click left-bottom corner of Web page - Restart -



Wait for few seconds of restart procedure

After it is restarted

Web Path: 2.System Advanced\ 2.3.Offnet MAP, and it shows information of FORWARD.MAP



Fo				
	0	ffnet M	AP	
hfig. Maximum:		65	0	
on Entered:		6		
and the second sec				
umber			Page 1 / 1 Sho	w << >>
n Offnet Number	Forward Number	Rem	Instead Number	Change To
886282263933	123456789012918	0	-	886282263933
886282263934	123456789012919	0	-	886282263934
886282263935	123456789012920	0	-	886282263935
886282263936	123456789012921	0		886282263936
ing 886282263937	123456789012922	0	-	886282263937
886282263938	123456789012923	0	-	886282263938

In addition to the function above, OFFNET MAP has the ability to change prefix number. This function changes the prefix of incoming Offnet To number and make outgoing Offnet To number with new prefix number.

For example:

<pre>@OFFNET.MAP ·</pre>	記事本	미지
檔案(E) 編輯(E)	格式(<u>O</u>) 說明(<u>H</u>)	
88628226393	3 ,123456789012918, 3, 852	
88628226393	i ,123456789012919, 3, 887	
88628226393	,123456789012920	
88028220393	,123450789012921	-
1		

Web Path: 2.System Advanced\ 2.3.Offnet MAP, shows information of OFFNET.MAP

MOS	A 4491				
System Info					
ome		0	ffnet M	AP	
1.System Config.	Maximum:		65	0	
1.1.Basic Information	Entered:		6		
📑 1.2.Channel					
1.3.Extension Number				Page 1 / 1 Sh	nw << >>
1.4.Broadcast Auth.	Offnet Number	Forward Number	Pom	Instead Number	Change To
System Advanced	886282263933	123456789012918	3	852	852282263933
2.1.Member	886282263934	123456789012919	3	887	887282263934
2.2.Offnet MAP	886282263935	123456789012920	0	-	886282263935
2.3.Forward MAP	886282263936	123456789012921	Ō		886282263936
2.4.Behavior Setting	886282263937	123456789012922	0	20	886282263937
IP Settings	886282263938	123456789012923	0		886282263938
Phone Book					
File Transfer	Search List:			Search	
IP Search					

The prefix of entries 1 and 2 are changed.



8.6 Application of Redirect Map

When this machine works with MOSA 4600 Plus, Redirect Map can provides more available extension and it is not limited to 100 channels of this machine, also, it make one step dialing to traditional PBX behind MOSA 4600 Plus possible. The same as Forward Map, Redirect Map is also a text file, and it can be edited by Windows Notepad software and upload by FTP software to this machine.

Example of format and field of Redirect Map

Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	Field 9	Field 10
RSVD1	RSVD2	Forward No.	RSVD3	Suffix	Query	IP address	UDP port	Offnet No.	Note
0	0	886282263333	-1	6***	F	59.120.200.103	2000		;Headquarters

■ REDIRECT.MAP - 記事本								
檔案(E)	編輯(E)	格式(Q)	檢視(⊻)	說明(H)				
0 0 8862	82263333	-1 6*** F	59.120.2	200.103 2000	;Headquarters 🛆			
<					≥ .;;			

Field: (10 fields)

- 1. Reserve code for system (has to be 0)
- 2. Reserve code for system (has to be 0)
- The complete phone number or VODNET ID (max 22 digits) of the machine that connect to PBX (for the example below, MOSA 4600 Plus) Illustration Figure



- 4. Reserve code for system (has to be -1)
- 5. Suffix Phone number that is brought from MOSA IP-PBX (as the figure above, max 22 digits, can be "*". "*" means any digits from 0~9)

(Note: For example, the number that is brought from MOSA IP-PBX is 9996000; and configuration here is 6***. It means system retrieve 4 suffix digits only and the first digit has to be 6. Retrieves 4 digits, 6000 is the result. Make call with these 4 digits only.)

6. Select to inquire dynamic phonebook / VODNET ID or not (F: not query / V: query but IP =

0)

- 7. The IP address of the device (as the figure above, MOSA 4600 Plus) that connect to PBX (IP or 0)
- 8. The Port Number of the device (as the figure above, MOSA 4600 Plus) that connect to PBX (0~65535)
- 9. Configuration of Offnet Number. Keep it blank for this application (Max 22 digits, optional)
- 10. Note for this line. Add ";" ahead in this field. It is optional.

Note: Each field is separated by blank and the 5th field can not be repeated in each records.

The description above can also be another form. When the devices that connect with PBX uses dynamic IP. That device and MOSA 4491 are all able to connect with VODNET.

Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	Field 9	Field 10
0	0	2862006003	-1	6***	V	0	0		;Headquarters

■ REDIRECT.MAP - 記事本						
檔案(E)	編輯(E)	格式(Q)	檢視(⊻)	說明(H)		
0 0 28620	06003 -1	6*** V () 0 ;Heado	luarters	~ ~	
<					× .;	

When the editing of this file is done, upload it to MOSA 4491 by FTP software or Web page. Attention: file name has to be REDIRECT.MAP

To use this special application, tune MOSA 4600 Plus, traditional PBX and other devices is required. Please contact with us for more detail.



9 Management Web

9.1 Web Path: 1.System Config.\Basic Information

		Apply	Cancel
	Information		
Region ID:	0 (Taiwan)		
Software Version:	2.01.0		
BootRom Version:	1.00		
Hardware Version:	1.00		
Up-Time:	0 day 0 hr 26 min 0 sec		
MAC Address:	00-03-62-80-7B-3C		
Location Name:			
	Time Configuration		
Time Source:	Auto Sync 💌		
Date:	2008/05/26		
Time:	11:12:27		
Time Zone:	Beijing, Hong Kong, Singapo	ore, Taipei	~
DayLight Saving:	Off 🖌		
l	JDP Port Configuration		
Call Control:	2000		
RTP Base:	4000		
	DISA		
IP Call:	Enable 🖌		
	My Phone Number		
Country Code:	886		
Area Code:	2		
Phone Number:	2026518		
	My ID		
VODNET ID:	28 - 6 - 202 : 6518 🦲	et (-OK-)	
Netmosa ID:			
We	b Management Password		
User Name:	WEB		
Password:	•••••		
Confirm Password:			



Category	Field	Description	Default Value
Information	Region ID	Displays the Region ID (Country ID) of this	0
		machine. The ID on the screen is what the	
		machine now using.	
	Software Version	Displays the Software Version of this machine	(Read Only)
	BootRom Version	Displays hardware BootRom Version of this machine	(Read Only)
	Hardware Version	Displays hardware Version of this machine	(Read Only)
	Up-Time	Display the elapse time since last start	(Read Only)
	MAC Address	Display the MAC address of HW equipment	(Read Only)
	Location Name	Displays the identification name of this machine	
Time Configuration	Time Source	Select the method to synchronize the system date and time Auto Sync : Synchronize automatically Manual : Entered manually	Auto Sync
	Date	Enter the date manually, valid only if " Manua l" is selected in Time Source, In format yyyy/mm/dd	(Read Only)
	Time	Enter the time manually, valid only if " Manua l" is selected in Time Source, in format hh:mm:ss	(Read Only)
	Time Zone	Select the time zone which the system is located	Time Zone of Region ID
	DayLight Saving	Select if daylight saving applied ON : daylight saving applied OFF : daylight saving not applied	OFF
UDP Port Configuration	Call Control	Define UDP port number for packet transmission. The number is between the range of 0 – 65535. (It is activated after system re-started)	2000
	RTP Base	Define UDP port number for voice packet transmission. The port number must be even and between the range of 0 – 65534. (It is activated after system re-started)	4000
DISA	IP Call	Auto attendant (DISA) for incoming IP Call Enable : DISA answer the call Disable : DISA don't answer the call	Enable
My Phone Number	Country Code	Country Code of the location of this machine (such as China: 86, USA: 1)	Country Code according to region ID
	Area Code	Area Code of the location of this machine (such as Shanghai: 21, Taipei: 2)	Area Code according to region ID's capital
	Phone Number	Enter the office telephone number.	Phone Number created by MAC
My ID	VODNET ID	VODNET ID is displayed if registration is successful; "OK" is displayed if register to VODNET.	(Read Only)
	Get	Request VODNET ID	



Category	Field	Description	Default Value
	Netmosa ID	NETMOSA ID is displayed if registration is	
		successful;	
		"OK" is displayed if register to NETMOSA	
Web	User Name	User Name to login Web	WEB
Management	Password	Password to login Web	
Password	Confirm Password	Double confirm the password to login Web (has to	
		be consistent with the Password above)	

9.2 Web Path: 1.System Config.\1.2.Channel

						Apply	Canc	el
			IV	lembe	er Configuration			
Ch	User ID	Sfx	Adm	Ctrl	Forward To	Offnet To		
{001,	D	, 01,	EN	, DIS,	,		},	~
{002,	D	, 02,	EN	, DIS,	,		},	
{003,	D	, O3,	EN	, DIS,	,		},	
{004,	D	, 04,	EN	, DIS,	,		},	=
{005,	D	, 05,	EN	, DIS,	,		},	
{006,	D	, 06,	EN	, DIS,	,		},	
{007,	D	, 07,	EN	, DIS,	,		},	
{008,	D	, 08,	EN	, DIS,	,		},	
{009,	D	, 09,	EN	, DIS,	,		},	
{010,	0	, 10,	EN	, DIS,	,		},	
{011,	0	, 11,	EN	, DIS,	,		},	
{012,	0	, 12,	EN	, DIS,	,		},	
{013,]	, 13,	EN	, DIS,	,		},	
{014,]	, 14,	EN	, DIS,	,		},	
{015,]	, 15,	EN	, DIS,	,		},	
{016,]	, 16,	EN	, DIS,	,		},	
{017,	J	, 17,	EN	, DIS,	,		},	
{018,	J	, 18,	EN	, DIS,	,		},	
{019,	J	, 19,	EN	, DIS,	,		},	
{020,	J	, 20,	EN	, DIS,	,		},	
{021,	J	, 21,	EN	, DIS,	,		},	
{022,	J	, 22,	EN	, DIS,	,		},	
{023,	J	, 23,	EN	, DIS,	,		},	
{024,	J	, 24,	EN	, DIS,	,		},	
{025,	J	, 25,	EN	, DIS,	,		},	~

Note					
Field	Name	Length	Description		
Ch	Channel	-	read only		
User ID	User ID	-	read only		
Sfx	Suffix	2	read only		
Adm	Admin. State	3	read only		
Ctrl	State Control	3	EN:Enable / DIS:Disable		
Forward To	-	21	0~9		
Offnet To	-	23	0 ~ 9 P		



Category	Field	Description	Default Value
Member	Ch	Channel number (Read Only)	001~100
Configuration	User ID	User ID number (Read Only)	0
	Sfx	Suffix number (Read Only)	01~99, 00
	Adm	Current status of this channel (Read Only) EN: Enable DIS: Disable	EN (Enable)
	Ctrl	Configure new state of this channel EN: Enable DIS: Disable	DIS (Disable)
	Forward To	Forward To number	
	Offnet To	Offnet To number	

Note :

- The text at Web page can be edited on Web page directly. It also can be copy and paste to Windows Notepad for editing and backup purpose. Edit it at Notepad, copy and re-paste to Web page, and then click Apply.
- You can also use Microsoft Excel to edit or create these data and save it as CSV (*.csv) format (separated by comma) that has correct format what this machine need.

9.3 Web Path: 1.System Config.\1.3.Extension Number

				Арр	ly Ca	ncel
	Net	twork C	Operator			
Extension Number:						
	Prefix/Extens	ion Nu	mber Mapping	List		
Maximum:	10	00				
Entered:	0					
Max. Length of Prefix	/Ext. No.: 6					
		Page	1 / 1 Show	<u> ~ >></u>		
Prefix/Ext. No.	Phone Number		Туре	Delete		
	Prefix/Ext.	No.	Phone Number		Туре	
Add/Modify:					Phone	*
Delete:]			
Delete All:	Delete All					
Search List:			Search			



Category	Field	Description	Default Value
Network	Extension Number	Enter the prefix number of equipment that the	
Operator		Operator is defined. Normally the Operator of this	
		machine will be connected if Access Code for	
		Operator (default is "0") is dialed. If the Operator	
		of this machine is set to N/A, the call will be	
		transferred to the Operator of other equipment	
		whose prefix number is assigned here.	
		E.g. the Extension Number of this machine:	
		Prefix/Ext. No Phone Number type	
		33 886282268888 iPBX	
		If the Operator is assigned to equipment with	
		prefix 33, then enter 33 in this field	
Prefix/Ex	Maximum	The maximum number of equipment can be	1000((Read Only)
tension		entered. (read only)	
Number	Entered	The number of equipment has been entered (read	0
Mapping		only)	
List	Max. Length of	The maximum length of Prefix number (read only)	6(Read Only)
	Prefix/Ext. No.		
	Add/Modify	Prefix/Ext. No.	
		Add/Modify a Prefix number	
		Enter the Prefix/Extension number for other	
		equipment, digits length is 1~6	
		Phone Number :	
		Input the Phone Number or VODNET ID of that	
		specified machine	
		Type :	Phone
		Phone : System will start to create the call path	
		after dialing the Prefix/Ext. No.	
		• iPBX : System will start to create the call path	
		after dialing prefix number plus 2 digit suffix	
		number (prefix ID + Suffix No).	
		Conference: It has to work with FONEMOSA	
		4496 (Conference Bridge). When chairman	
		had invited one person to conference,	
		chairman can dial # and invite next person to	
		join.	
	Delete	Input Prefix/Ext. that will be deleted	
	Delete All	Delete All (button). Delete all data of Prefix/Ext.	
		No.	
	Search List	Input the Prefix/Ext. No. prefigured that you want	
		to search	
		Search (button) : Click this button to search	
		number in Search List	



9.4 Web Path: 1.System Config.\1.4.Broadcast Auth.

			Apply Cancel
	Broadcast A	Authentication	
Maximum:	64		
Entered:	0		
		Page 1 / 1 Show	/ << >>
MAC Address	Phone Number		Delete
	MAC Address	Phone Number	
Add/Modify:			
Delete:]	
Delete All:	Delete All		
Search List:		Search	

Category	Field	Description	Default Value
Broadcast	Maximum	The maximum number of Broadcast server	64(Read Only)
Authentication		(FONEMOSA 4483/ MOSA4600P) can be entered.	
		(read only)	
	Entered	The number of Broadcast server (FONEMOSA 4483/	0
		MOSA4600P) has been entered (read only)	
	List	MAC Address: List MAC address	
		Phone Number: The phone number that map the	
		MAC address	
		Delete: Delete Entry	
		Delete (button): Click the button to remove this	
		entry	
	Add/Modify	Mac Address	
		Input the MAC address of Broadcast server	
		(FONEMOSA 4483 / MOSA4600P). If this	
		machine connects to Broadcast server, then it	
		needs related information of Broadcast server for	
		authentication.	
		Phone Number :	
		Input Phone Number or VODNET ID of that	
		specified device	
	Delete	Input MAC address that will be deleted	
	Delete All	Delete All (button), Delete all data	
	Search List	Input the MAC Address prefigured that you want	
		to search	
		Search (button) : Click this button to search in	
		Search List	

9.5 Web Path: 2.System Advanced\2.1.Member

					Apply	Cancel
			Membe	er List		
			Pa	age 1 / 0 🕓	how << >>	
Channel U	ser ID					Delete
	Channel	User I	D	Password	Confirm	Password
Add:	Select 💌					
Delete:	Select 💌					
Delete All:	Delete All					
Result:						

Category	Field	Description	Default Value
Member List	T	Channel: Channel that specified for the member	
	List	User ID: Account of the user. Digits made from	
		1~9.	
		Delete: Delete date	
		Delete (button): Click this button to remove this	
		entry	
	Add/Modify	Channel: Select the Channel that the user uses.	
		User ID: Input the User ID for member to operate	
		that channel by phone set.	
		Password: Input the Password for member to	
		operate that channel by phone set.	
		Confirm Password: Double confirm this password	
	Delete	Channel: Select the channel that its member will	
		be removed.	
		User ID: Input User ID of member and click	
		Apply to remove.	
	Delete All	Delete All (button). Click this button to remove all	
		data	
	Result	Shows the result of operation	



9.6 Web Path: 2.System Advanced\2.2.Offnet MAP

	01	ffnet M	AP	
Maximum:		65	D	
Entered:		0		
			Page 1 / 1 Sho	w << >>
Offnet Number	Forward Number	Rem	Instead Number	Change To
Search List:			Search	

Category	Field	Description	Default Value
		The maximum number of entries can be entered.	
Offnet MAP	Maximum	(read only)	
		The number of entries has been entered (read	
	Entered	only)	
		Offnet Number: The Offnet (PSTN) number that	
	List	will dial at remote site.	
		Forward Number: The Forward number to remote	
		site	
		Rem: The prefix length that will be replaced.	
		Instead Number: Replaced by new prefix number.	
		Change To: The actual number will be dialed.	
		Input Offnet Number for search	
	Search List	Search (button): Click to search	

Note: Text editor software is required to create or edit Offnet Map. Upload it to machine to take effect. Please refer to 8.5 Application of Offnet Map



9.7 Web Path: 2.System Advanced\2.3.Forward MAP

Forward MAP				
	Page 1 / 5 Show << >>			
Channel	Forward Number			
1	-			
2	-			
3	-			
4	-			
5	-			
6	-			
7	-			
8	-			
9	-			
10	-			
11	-			
12	-			
13	-			
14	-			
15	-			
16	-			
17	-			
18	-			
19	-			
20	-			

Category	Field	Description	Default Value
Forward MAP	Channel	Channel No.	1~100
	Forward Number	Forward number of that channel	

Note: Text editor software is required to create or edit Forward Map. Upload it to machine to take effect. Please refer to 8.4 Application of Forward Map



9.8 Web Path: 2.System Advanced\2.4.Behavior Setting

MOSA 4491

System Info	(Need Warm-Restart)				
Home 🗧	Apply Cancel User F	rogramming Access Code			
Þ 🗁 1. System Config.	Access Code	#1*			
– 🗎 1.1.Basic Information		Operator Setting			
– 🛄 1.2.Channel	Operator Code:	None			
- 1.3.Extension Number	Assign Operator to (Channel):	N/A 🗸			
└──────────── └──── └─── └─── └── └── └	Compare Tailing Digits				
E = 2.System Advanced	Digit.	4			
– 🖺 2.2.Offnet MAP	Through PBX Seizure				
- 🗎 2.3. Forward MAP	Type:	Normal			
L 🗎 2.4.Behavior Setting	Search Redirect.map According to				
-🗁 3.IP Settings 🥂	Depend On:	Caller ID			
- 4.Phone Book	System Phone Setting Programming				
IP Search Phone Number Search	Access Code :	*0			
Redirect Map Search	Password:	****			
-Restart-	Confirm Password:				

Category	Field	Description	Default Value
User Programming Access Code	Access Code	Access code for user to enter management mode by phone set	#1*
Operator Setting	Operator Code	Dial this code to reach operator	None
	Assign Operator to (Channel)	Assign channel for operator	N/A
Compare Tailing Digits	Digit	When this machine works with MOSA IP-PBX (MOSA 4600 Plus), it can do one-step dialing to penetrate traditional PBX. By this special application, it expands available extension number. Specify the suffix digits length from MOSA IP-PBX, and compare these digits with Redirect.map. If it matches, then dial the forward number that is specified at Redirect map	0



User Manual

Category	Field	Description	Default Value
Through PBX Seizure	Туре	Normal: Original using method, calling side of	Normal
		IP-PBX dials IP call via 4491 (this machine), or	
		IP->outbound to PSTN call via 4491	
		Voice Mail: Calling side is the extension of	
		traditional PBX or Voice Mail. It can seize trunk	
		to MOSA 4600 Plus and then it is forwarded via	
		4491. This is for special application.	
Constant Doubling of more		System can specify outgoing call according to	Extension
Search Redirect.map	Depend On	incoming caller ID automatically. Here specify	
According to (Trunk		the incoming caller ID for judgment	
Call only)		Extension : Extension number of MOSA IP-PBX	
		Caller ID : Caller ID of incoming trunk call	
System Phone Setting Programming	Access Code	Configure access code of phone-set programming for administrator	*0
	Password	Configure password of phone-set programming	
		for administrator	
	Confirm Password	Input password again	



9.9 Web Path: 3.IP Settings

(Need Warm-Restart)	Apply	Cancel					
IP Settings							
IP State:	Manual 🖌						
Public IP Address							
IP/Port:	59.120.228.107/ 2000						
Current Settings							
IP Address:	59.120.228.107	59.120.228.107					
Subnet Mask:	255.255.255.192						
Default Gateway:	59.120.228.65						
Change To							
IP Address:	10.13.6.2						
Subnet Mask:	255.255.255.0						
Default Gateway:	10.13.6.1						
	DNS Server						
Primary Address:	168.95.1.1						
Secondary Address:	0.0.0.0						
	VODNET Setting						
Serial Number	Priority						
2010095953 - 50397	2						
1798363112 -49584	1						
Password:							
	Netmosa Setting						
IP Address Port	_						
0.0.0.0 2000							
	CDR Receiver						
Format:	Compact 🗸						
IP Address:	0.0.0.0						
Port:	0						



User Manual

Category	Field	Description	Default Value	
IP Settings	IP State	 The type of IP Address get: Manual : User enters the assigned static IP address Auto(DHCP) : Dynamic IP address from DHCP server 	Manual	
	Public IP Address	IP Address / Port current used for this machine		
	Current Settings	Display the current setting (current using) IP information, including IP Address, Subnet Mask and Default Gateway. (Display only)	192.168.0.2 255.255.255.0 192.168.0.1(Read Only)	
	Change To	Enter the information to be updated to, including : 1. IP Address 2. Subnet Mask 3. Default Gateway (IP State must be at state "Manual") After you had filled out these parameters, click button "Apply" to activate the updated value and the system must be restarted. (Warm Start)	192.168.0.2 255.255.255.0 192.168.0.1	
DNS Server Primary Address:		IP Address of Primary DNS server.	168.95.1.1	
	Secondary Address:	IP Address of Secondary DNS server.	0.0.0.0	
VODNET Serial Number Setting		Serial Number of VODNET. Default value is pre-configured. If you don't have this number, please contact with distributor. This number is required for making VODNET call	2010095953- 50397 1798363112- 49584	
	Priority	The priority of the Serial Number above (Read Only)	1 or 2	
	Password	If password is required to register VODNET, please input here.		
Netmosa	IP Address	Input NETMOSA IP	0.0.0.0	
Setting	Port	Input NETMOSA Control Port	2000	
CDR Receiver	Format	Select what type of CDR it reports Regular: Complete data Compact: Partial	Compact	
	IP Address	Input the IP address of FONEMOSA 4492 that will receive CDR data.	0.0.0.0	
	Port	Input the control port of FONEMOSA 4492 that will receive CDR data.	0	



9.10 Web Path: 4.Phone Book

				Apply	Cancel
		Phone Boo	k		
Maximum:	100				
Entered:	2				
Enteries List:					
	Page	1 / 1 Show) << >>]	
Phone Number		IP Address	Port	Delete	
88635715131		140.114.20.20	2000	Delete	
886210065707		59.120.240.11	2000	Delete	
	Phone	Number	IP Addre	ess C	ontrol Port
Add/Modify:					
Delete:					
Delete All:	Delete	All			
Search In List:			Search		

	I	Delault value
Maximum:	Maximum number of "static phone book entries" allowed	100(Read Only)
Entered	Number of "static phone book entries" entered.	0(Read Only)
Entries List:	List of static phone book entries ■ Phone Number	(Read Only)
	 IP Address Port (number) 	
	Delete (button): Click it to delete this entry	
Add/Modify:	 There are 2 ways to configure static Phone number 1. If the device use fix IP Phone Number : Number you want to add or modify (including country code + area code + Phone No.) IP Address : IP address you want to add or modify Control Port : Control port you want to add or modify If the device use dynamic IP Phone Number : Number you want to add or modify (including country code + area code + Phone No.) IP Address : Set to 0.0.0.0 Curtal Part : Set to 0.0.0 	
	Maximum: Entered Entries List: Add/Modify:	Maximum: Maximum number of "static phone book entries" allowed Entries Number of "static phone book entries" entered. Entries List: List of static phone book entries Phone Number IP Address Port (number) Delete (button): Click it to delete this entry Add/Modify: There are 2 ways to configure static Phone number 1. If the device use fix IP Phone Number : Number you want to add or modify (including country code + area code + Phone No.) IP Address : IP address you want to add or modify Control Port : Control port you want to add or modify 2. If the device use dynamic IP Phone Number : Number you want to add or modify (including country code + area code + Phone No.) IP Address : Set to 0.0.0. IP Address : Set to 0.0.0.0 IP Address : Set to 0 Set to 0



User Manual

Category	Field	Description	Default Value
	Delete	Input "phone number" (including country code +	
		area code + phone number) you want to delete. It	
		removes static phone book entry.	
	Delete All	Delete all "static" entries from the Phone Book. It	No
		won't remove "dynamic" entry from learning	
		procedure	
		Yes: Yes, delete all	
		No: No	
	Search In List:	Search IP/Control Port of other machine via the	
		Phone number input here. The number input here	
		has to be complete number (country code + area	
		code + phone number)	
		Search (button): Input phone number (includes	
		country code + area code + phone number) and	
		click search	

9.11 Web Path: 5.File Transfer

Put File from PC to this Device					
Select File:	瀏覽 Clear				
Send		Keep C) riginal IP ((CFG only)	2
Result: N/A					
-					
G	iet I	File from this	Device to	PC	
File Name		Size	Date	Time	Get
FWDSRVR.RUN		802120 Bytes	2008/02/22	15:21:00	
FWDSRVR.CFG		65616 Bytes	2008/01/01	00:00:00	
FWDSRVR.MEM		0 Bytes	2008/01/01	00:00:00	
FWDSRVR.WEB		45068 Bytes	2008/01/11	11:04:00	
REDIRECT.MAP		256 Bytes	2008/05/21	14:17:30	

(Sample MEM File)

Category	Field	Description	Default Value
Put File from PC	Select file	Browse (button): Select the file that will upload to	
to this Device		this machine	
		Send (button): Execute upload action	
		Clear (button): Clear the file and path that had	
		been input	
		Attention: Run Restart is required when .RUN	
		and .Web file is uploaded	
	Keep Original IP	Click this option to keep IP Address intact if other	
	(CFG only)	CFG configuration is loaded.	



User Manual

Category	Field	Description	Default Value
	Result	Shows the upload status	
		Success: file is uploaded successful and take effect	N/A
		immediately	
		Need Warm Restart: Warm restart is required, such	
		as file: GT1~GT8, WEB, VON	
		Need Cold Restart: Cold restart is required, such	
		as file: RUN	
		File ID Error: File uploaded is not for this	
		machine.	
		N/A: No action	
Get File From	File Name	Shows the file information of in this machine	
this Device to PC		currently.	
		File Name	
	Size	File Size	
	Date	File date	
	Time	File time	
	Get	Select file that can be download to PC	
Sample MEM		If text editor (Notepad) is used to edit the contents,	
file		here is the example of parameter.	

10 File Management

10.1 File Type

The naming convention to the file type of MOSA 4491 is listed in the following table:

File Name	File Type	Description
FWDSRVR.CFG	System configuration file	File of system configuration
FWDSRVR.RUN	Executing file	System Software
FWDSRVR.WEB	Web file	Page for web browser
FWDSRVR.MEM	Text file	MEM setting file can be downloaded by FTP to PC; open file and modify the contents using NOTEPAD or other word processing tool; then uploaded the file to system. PS. Data can be added or modified only. Delete data in the file and upload again won't delete anything. To remove data, please remove it from Web directly.
FWDSRVR.VON	Greeting File	Voice greeting that report the ID of user
REDIRECT.MAP	Text file	MAP setting file can be downloaded by FTP to PC; open file and modify the contents using NOTEPAD or other word processing tool; then uploaded the file to system. This file is to expand available extension number or one step dialing to penetrate PBX

File meaning in DISK0\ folder: Max 2 MB

File Name	File Type	Description
VMM.TRE	Structure File	Structure file of Instruction greeting
GRT_1	Greeting File	Section 1 greeting file
GRT_2	Greeting File	Section 2 greeting file
•	•	
GRT_7	Greeting File	Section 7 greeting file



FVPN-01	Instruction greeting	Section 1 instruction greeting file
FVPN-02	Instruction greeting	Section 2 instruction greeting file
FVPN-03	Instruction greeting	Section 3 instruction greeting file
•	•	•
FVPN-31	Instruction greeting	Section 31 instruction greeting file
FORWARD.MAP	Text file	MAP setting file can be downloaded by FTP to PC; open file and modify the contents using NOTEPAD or other word processing tool; then uploaded the file to system. This file records the default Forward To number of each port.
OFFNET.MAP	Text file	MAP setting file can be downloaded by FTP to PC; open file and modify the contents using NOTEPAD or other word processing tool; then uploaded the file to system. This file records Offnet To number and its Forward To mapping number.

10.2 Upgrade firmware by Management Web

This is the most simple way and most common use way to upgrade firmware. Please prepare FWDSRVR.RUN and FWDSRVR.WEB file first

For other upgradable file, please refer to previous section

To upgrade firmware via management web, please refer to 9.11Web Path: 5.File Transfer

10.3 Upgrade firmware by FTP

10.3.1 Software Update by FTP for File Type RUN and WEB



1. Execute FTP Client Software, e.g. CuteFTP Enter IP Address, User Name (default is FTP), Password (the password of FTP and Console is same, and the default is blank), and the Port Number to 21

😫 GlobalSCAPE, Inc CuteFTP Pro 3.0			- 8 ×
植菜町 編輯图 検視(切) 工具(0) 親蜜(切) 説明(日)			
」 <u>★</u> 機:			
□ General FTP Sites □ 192.168.8.31 □ 192.168.8.31 □ 192.168.8.51 □ 192.168.8.61 □ 192.168.8.62 □ 192.168.8.71 □ 192.168.8.73 □ 192.168.8.81 □ 192.168.8.91 □ 192.168.8.91 □ 192.168.8.91 □ 192.168.8.91 □ 100.468.10 □ 100.468.10 □ 100.468.10 □ 100.468.10 □ 100.468.10 □ 100.468.10 □ 100.468.20 □ 100.468.20 □ 100.468.20 □ 100.468.20 □ 100.468.20 □ 100.468.20 □ TONY □ Vodal Code □ 前京			
		\searrow	
× / # 項目名稱 位址 ↔ 大小 進度 本機 燈端 ////////////////////////////////	· 释至通	東順余	速度
		CAP NUM	4

- 2. Click button **Connect** to get connection between Gateway and FTP Client. The files of Gateway will be displayed on the window if the connection is successful.
 - (1) Files in Root :

🧧 GlobalSCAPE, Inc CuteFTP Pro 3.0 - [1	0.13.6.32,狀態: 錯誤]						2	_	8×
□ 檔案(P) 編輯(E) 核親(Y) 工具(Q)) 親窗(W) 説明(H)	V si m						_	<u> </u>
		<u> </u>	eter#		10				
±m: 10.13.6.32	▼」 使用者名稱[F1]		密碼:		項: [21	N 🙆 🖬			- ~
							<u> </u>		1 (J ¹⁰)
20030829 🗾 🖭	▲ 名稱				大小	類型	修改日期 2003年14 上午 10:20:00		描义
名稱					64 OSKB	111余貞科次 ○116 被案	2003/0/14 上十 10:30:00 2003/0/1 下午 02:26:00	0.FW-FF	
M Xf4421.run	FWDSRVR.MEM				0.13KB	MEM 檔案	2003/9/1 下午 02:26:00	-rw-rw-rw	
	FWDSRVR.RUN				0.98MB	RUN 檔案	2003/8/27 下午 02:17:00	-rw-rw-rw	.
	FWDSRVR.VON				64.00KB	VON 檔案	2003/6/11 下午 04:27:00	-rw-rw-rw	.
	FWDSRVR.WEB				0.13MB	WEB 檔案	2003/7/28 下午 04:35:00	-rw-rw-rw	•
	1								F
	× 1/\.7.8.2 1@7227074 *								
	指令:> RESTO	A Destaution of 0							
	ZIEN 1013632	4 Restarting at 0.							
	10.15.0.52								
* △ # 項目名稱	位址	\leftrightarrow	大小 進度	本機			遠端	經過	東朖
									Þ
▲ ▶ (候傳視窗 / 記錄視窗 /									
諸按 F1 鍵使用說明				10.13.6.32, 6	個物件,1.24M	в		NUM	



(2) File in /disk0 folder :

🖁 GlobalSCAPE, Inc CuteFTP Pro 3.0 - [10	.13.6.32,狀態: 已連線]				_ & ×
□ 檔案(E) 編輯(E) 檢視(Y) 工具(0)	親窗(型) 説明(H)				_ 8 ×
🔟 🗅 🗸 🎢 🖉 🖓 🖓 🕼 🕼 -	🗈 - 🎸 ret 🛍 🗜	X 🖻 🦀			
主機: 10.13.6.32	使用者名稱 FTP	密碼:	埠: 21 💋 🧭	1	
× 1	🗀 /disk0			💌 🖭 😰) C X 🗖 🖉
20030829	△ 名稱		大小類型	修改日期	■性
	FVPN_12		3.27KB 檔案	2003/8/25 下午 05:21:00	-rw-rw-rw-
V(4/21 mm	FVPN_13		2.11KB 檔案	2003/8/25 下午 05:21:00	-rw-rw-rw-
an X14421.1001	FVPN_14		4.83KB 檔案	2003/8/25 下午 05:21:00	-rw-rw-rw-
	🖌 FVPN_15		4.56KB 檔案	2003/8/25 下午 05:21:00	-rw-rw-rw-
	🖬 FVPN_16		4.40KB 檔案	2003/8/25 下午 05:21:00	-rw-rw-rw-
	🖬 FVPN_17		1.76KB 檔案	2003/8/25 下午 05:22:00	-rw-rw-rw-
	🗃 FVPN_18		3.02KB 檔案	2003/8/25 下午 05:22:00	-rw-rw-rw-
	FVPN_23		1.77KB 檔案	2003/8/25 下午 05:22:00	-rw-rw-rw-
	FVPN_24		4.18KB 檔案	2003/8/25 下午 05:22:00	-rw-rw-rw-
	🔄 FVPN_25		1.61KB 檔案	2003/8/25 下午 05:22:00	-rw-rw-rw-
	M FVPN_26		2.65KB 檔案	2003/8/25 下午 05:22:00	-rw-rw-rw-
	M FVPN_27		2.28KB 檔案	2003/8/25 下午 05:22:00	-rw-rw-rw-
	FVPN_28		2.40KB 檔案	2003/8/25 下午 05:22:00	-rw-rw-rw-
	FVPN_29		7.91KB 檔案	2003/8/25 下午 05:22:00	-rw-rw-rw-
	FVPN_30		3.14KB 檔案	2003/8/25 下午 05:22:00	-rw-rw-rw-
	FVPN_31		5.23KB 檔案	2003/8/25 F+ 05:22:00	-rw-rw-rw-
	GRI_1		64.00KB 檔案	2003/8/26 F + 12:17:00	-rw-rw-rw-
			32.00KB 檔案	2003/8/25 F+ 05:22:00	-rw-rw-rw-
			04.0014.8 幅楽	2003/8/20 1+ 12:17:00	-rw-rw-rw-
	M GRI4		04.0014.15 1個楽	2003/8/20 P + 12:18:00	-rw-rw-rw-
	BE CRIS		22.000万 檜東	2003/0/20 11 - 05.22.00	-IW-IW-IW-
	B GRIU		22.000万 檜安	2003/0/20 11 - 00.22.00	-IW-IW-IW-
				2003/0/25 05:22:00	-10-10-10-
	YMM.IKE		4.94KD IKE may	e 2003/0/20 05.02.00	-1w-1w-1w-
	× 200	Tyme set to A. ASCII mode			
■ 本機磁碟 10 站台管理員	↓ 10.13.6.32 /	1)10 00 00 10 10 10 000			
			1	() the 2010	Line Law
▲ # 項目名稱	位址	<-> 大小 進度	本機	達滿	
▶ (傳視窗 / 記錄視窗 /					
		1	0.13.6.32, 34 個物件,0.42MB		NUM

3. Select the file with extension of .RUN and click button **Upload** and then **Overwrite**. (Please notice that the file name must be same as the file name in the machine, e.g. FWDSRVR.RUN).

🤤 GlobalSCAPE, Inc CuteFTP Pro 3.0 - 🛙	012632,狀態: Xfer 使用目前的階段作業	ŧ]			₽	_6	P×
□ 檔案(F) 編輯(E) 檢視(Y) 工具(Q)	/ 視窗(M) 說明(H)					_ 5	Ч×
🔟 🗋 🖣 💏 🖓 🖓 🚺	- 🗈 - 🤌 💷 🎬 🗜 🗙 🖆 🦇						
主機: 10.13.6.32	使用者名稱 FTP	密碼:	埠: 21	🔊 🙆 🐚			
	, 🗀 /				- 主 🖸	ο×⊟	Sat
Code(vodtel)	▲ 名稱		大小	類型		屬性	描刻
29	disk0		0 Bytes	檔案資料夾	2003/6/14 上午 10:30:00	drw-rr	
C (171009	FWDSRVR.CFG		64.08KB	CFG 檔案	2003/9/1 下午 02:26:00	-rw-rw-rw-	
UE2202 &04 Service	FWDSRVR.MEM		0.13KB	MEM 檔案	2003/9/1 下午 02:26:00	-rw-rw-rw-	
- UE2000D	FWDSRVR.RUN		0.98MB	RUN 檔案	2003/8/27 下午 02:17:00	-rw-rw-rw-	
	FWDSRVR.VON		64.00KB	VON 檔案	2003/6/11 下午 04:27:00	-rw-rw-rw-	
- HF3202K2	FWDSRVR.WP		0.121410	^{™DB} 檔案	2003/7/28 下午 04:35:00	-rw-rw-rw-	
	選取動作			×			
- HF3210B	檔案: AFWDSRVR	.RUN					
	已存在。						
HP4411(eAccess)	租有(日標)機家明細						
MOSA 4504	0.98MB (1,025,004 b	ytes),修改於 Wednesday, A	ugust 27, 2003,				
MOSA 4516	02:17:00PM						
MUSA 4602	要被傳送的檔案 (來源) 明細:					
MUSA 4604A	1.12MB (1,171,024 b	ytes),修改於 Wednesday, Ju	uly 30, 2003, 09:31:02	AM			
MUSA 4616	修供·日槽中期·蔽新。	,大小: 蔀小。					
NETMOSA	19411 - LI 07 LI 703 - 40091	2.4.3.4.464.3.					
NEIMOSA+							
PF3116	動作						
SF3700	▲ ○ 覆寫(0) ♪ 跳過	K) C 績傳(R) C 更名	G(M) ○ 建立副本()	N)			
SF43UZA							
SF4304A	· · · · · · · · · · · · · · · · · · ·	到日前的演奏(^)	確定				
Update	○ 在田շ闲道间机的	日前候傳傳自己的有的傳輸(1	1) The Add				
VON		いたまたのであります。	ー 				
FWDSRVR.MEM		別有木木時期的自意復長し	9				
FWDSRVR.run							
		te de cale					
	山 狀態:> 一個相同的檔案已在遠端或	6台中。					-
	10.13.6.32						
× △ # 項目名稱	位址 <->	大小 進度 7	本機		遠端	經過	1.
F 🖌 FWDSRVR.MEM	10.13.6.32 🔶 0.13F	KB 100% C	C:\Documents and Setti	ngswickis\My Docu	me /FWDSRVR.MEM	0:00:00	(
S 📑 FWDSRVR.MEM	10.13.6.32 🛶 0.13F	KB 100% C	C:\Documents and Setti	ngswickis\My Docu	me /FWDSRVR.MEM	0:00:00	
1 FWDSRVR.RUN	10.13.6.32	MB 0% C	C:\Documents and Setti	neswickis\Mv Docu	me., /FWDSRVR.RUN	0:00:00	g⊇l
						<u> </u>	
諸按 F1 鍵使用説明		10.13.6.	.32,6 個物件,1.24M	IB		NUM	

- **4.** After the file is overwritten (you may check if the time of the file is updated), machine has to run Cold Start to store the configure file, then the updating is effective.
- 5. Select the file with extension of .WEB and click button Upload (Please notice that the file name



must be same as the file name in the machine, e.g. FWDSRVR.WEB). And repeat the step 3 ~ 4.

6. Check if the uploading is successful, you enter the Web Management Page to examine the version of software.

		Apply	Cancel
	Information		
Region ID:	0 (Taiwan)		
Software Version:	2.01.0		
BootRom Version:	1.00	Ohaalu if tha	
Hardware Version:	1.00	version is	
Up-Time:	3 day 7 hr 11 min 14 s	correct	
MAC Address:	00-03-62-80-7B-3C		
Location Name:			

10.3.2 Update MEM file via FTP

Extension Table file can be download via FTP and edit, modify by Notepad or other text editor software. Upload it back when it is done.

You will see one more file FWDSRVR.MEM via FTP software. This table below is Extension Table data file.

△名稱	大小	類型	修改日期	層性
🗋 disk0	0 Bytes	檔案資料夾	2003/6/14 上午 10:30:00	drw-rr
FWDSRVR CFG	64.08KB	CFG 檔案	2003/9/1 下午 02:51:00	-rw-rw-rw-
FWDSRVR.MEM	0.13KB	MEM 檔案	2003/9/1 下午 02:51:00	-rw-rw-rw-
FWDSRVR.RUN	0.98MB	RUN 檔案	2003/8/27 下午 02:17:00	-rw-rw-rw-
FWDSRVR.VON	64.00KB	VON 檔案	2003/6/11 下午 04:27:00	-rw-rw-rw-
FWDSRVR.WEB	0.13MB	WEB 檔案	2003/7/28 下午 04:35:00	-rw-rw-rw-
		TMEL		
	IVI	ENI IIIE		

You can download FWDSRVR.MEM to computer and open it by Notepad, which is shown below.



HFIPE	BX.MEM - 記事本			
檔案①	編輯(E) 格式(O) 說明(H)			
33	886282263333	1		*
55	886282265555	1		
66	886282266666	1		
77	886282267777	1		
8000	86251112222	0		
6000	886211112222	0		
8888	886288888888	0	Туре	
6100	86216666666	0	■ 1 ÷ iPBX	
.	₹		■ 0:Phone	
	- Prefix	Phone Number		۲ //

By this way, you can modify or add the data by Notepad software. When it is done, upload it back to the machine by FTP software, then data is updated.

(Note: this way can modify or add data only. Delete data is useless. Please delete it from Web page)

Remarks for Update Software of File Type MEM:

After the configuration is finished, please make a backup file for CFG file. It is in case that if the data is lost, you may upload the backup file of CFG file to machine. If you upload the previous backup file of CFG file to gateway after the MEM file is uploaded, the MEM file will be ineffective because the backup file overwrites the Prefix Map table. You have to re-upload the updated MEM file to machine to get the correct data.



11 Network Management

11.1 Management by Console, and Telnet

11.1.1 List of all commands

User Exec commands :

Enable	Turn on privileged commands
Exit	Exit from the EXEC
Help	Description of the interactive help system
Show	Show running system information

show:

Dns	Show the IP address of domain name server
ethernet	FastEthernet port status and configuration
history	Display the session command history
Ip	Display IP configuration
running-config	Show current operating configuration
version	System hardware and software status

Privileged Mode :

Enter configuration mode
Reset configuration
Turn off privileged commands
Exit from the EXEC
Description of the interactive help system
Send echo request to destination
probe busytone cadence
stop probe busytone cadence
Halt and perform cold start
Halt and perform warm start
Show running system information

Global Mode :

Dbflush	DataBase flush
Dns	Set the IP address of domain name server
End	Exit from configure mode to privileged mode
Exit	Exit from configure mode
Help	Description of the interactive help system
Ip	Global IP configuration subcommands
manager	Enable/Disable the specific management function
No	Negate a command or set its defaults
password	Modify password of enable command
regional_id	Set regional id
service_port	Set service port number

11.2 Management by Phone-set

11.2.1 Command of phone set

Pick up phone set and hear dial tone, and then dial *0 0000, dial the number below to configure setting after Du Du Du tone

Item	Description	Parameter	Description
77	Record instruction greeting	2 Digit ;01~99	Record instruction greeting. Total 99 sections. Max 30 mins. Only 31 sections currently.
93	Configure extension of operator	2 Digits ;11~26	Configure an extension as operator
96	Play greeting	1 Digit ; 1~7	Play the greeting
98	Restart	1 : Execute	Warm Restart
99	Record greeting	1 Digit , 1~7	Record greeting, totally 7 sections.

Record Greeting (Please refer to 8.2 Greeting of DISA)

*	Start recording
#	End recording
0	Listen recording
#	Stop listening
9 #	Save recording and exit
#	Leave recording mode

Record Instruction Greeting (Please Refer to 8.3 Instruction Greeting for User)

*	Start recording
#	End recording
0	Listen recording
#	Stop listening
9	Save recording and exit
#	Leave recording mode



12 Dialing Flow Chart





13 Specification

Voice Compression: G711/G729 AB/G723 Silence Suppression: VAD, CNG Echo Cancellation: G.165/G.168 16 ms Jitter Buffer: Adaptive Jitter buffer Management Gain Control : In/Out +/-6db Packet Time: 40 ms Transport Protocol: RTP, RTCP Call Control Protocol: Proprietary Phonebook: Manual input, Automatic LAN Interface: 5 * Ethernet Ports; 10BASE-T/100BASE-TX Auto-negotiation; RJ-45 Connectors System Console interface: 1

Management:

Management Tool: Web Browser, Phone set, System Console, and Telnet IP Address: Static IP / DHCP Firmware Update: Web, FTP

Power

Power Adaptor, Voltage: 100VAC ~ 240VAC. Frequency: 50/60Hz Power Consumption: 9 W Dimension: 127 mm x 80 mm x 21 mm

Working Environment

Operating Temperature: 0 to 50°C, Storage Temperature: -10 to 70°C EMI certification: FCC part 15 Class B.CE Mark PTT Regulation: FCC part 68, NALTE, iD A, JATE Safety: cUL, CCIB, CB

DCC NO. 9171004703