

MOSA 4600 PLUS Series

Technical Manual

Edition 6.0

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Firmware: 2.02.2 & 3.04

DCC No.: 9171006106

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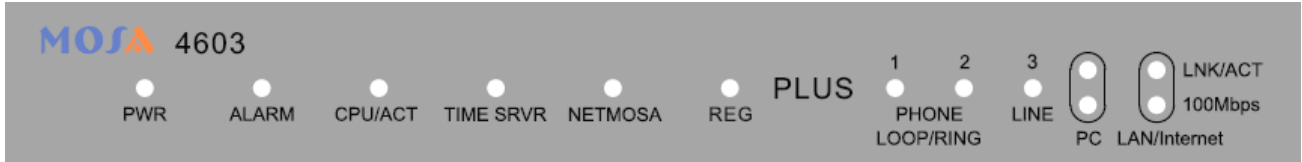
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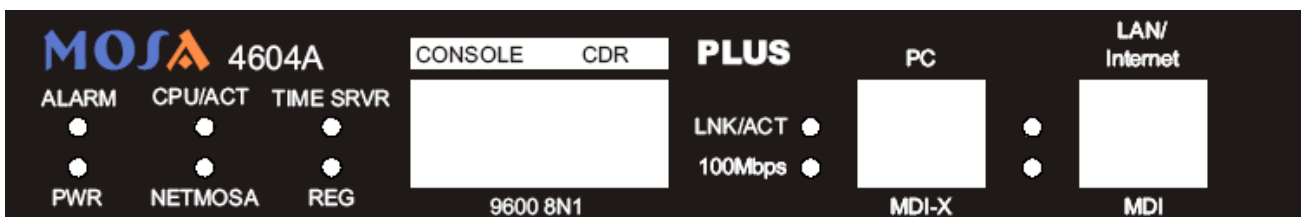
1. Machine Outlook

Front Panel

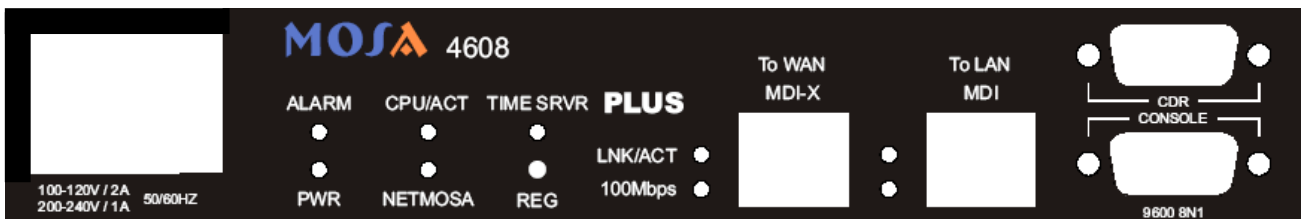
MOSA 4603



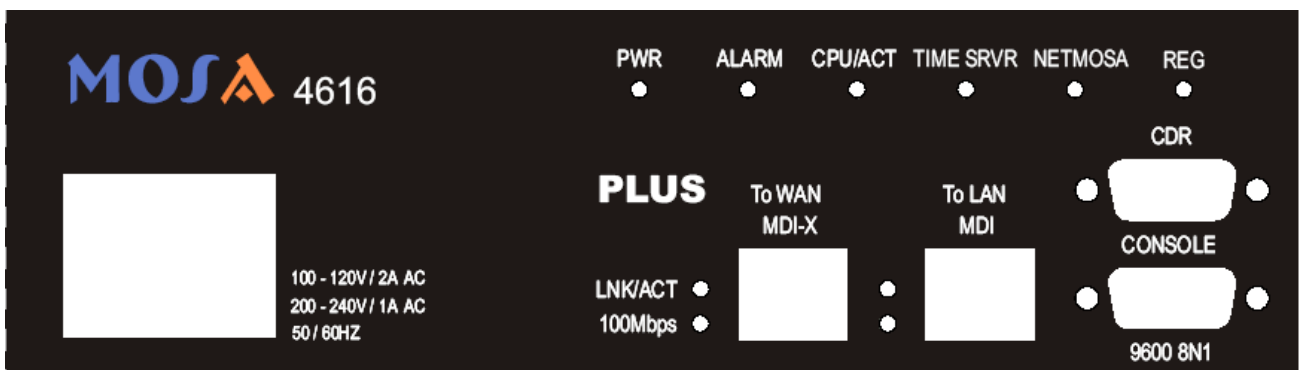
MOSA 4604A/B/C/D PLUS



MOSA 4608 PLUS

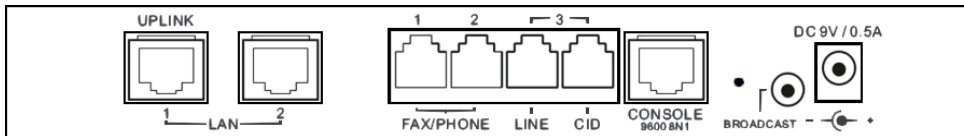


MOSA 4616 PLUS

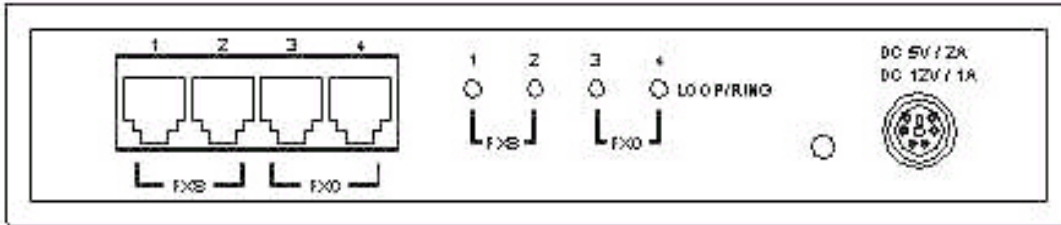


Rear Panel

MOSA 4603



MOSA 4604 PLUS A/B/C/D



MOSA 4608 PLUS



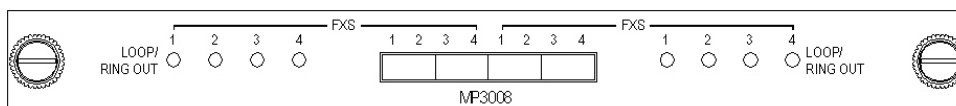
MOSA 4616 PLUS



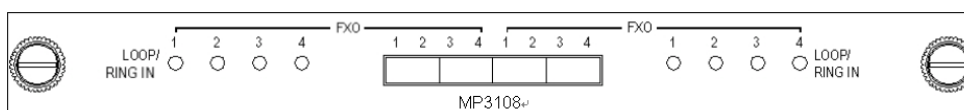
Modules

MOSA 4600 PLUS can use 3 kinds of model, including MP3008+, MP3108+ and MP3208+.

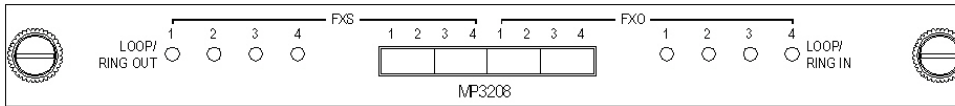
MP3008+ (8FXS)



MP3108+ (8FXO)



MP3208+ (4FXS + 4FXO)



LED Description

LED	Label		Description
Device	PWR	ON	Power is ON
	ALARM	ON	When power is ON, system detects hardware automatically. LED keeps ON if error detected.
	CPU/ACT	ON	CPU is in normal operation
		FLASH	CPU is Running
	TIME SRVR	ON	Able to access to TIME SERVER
		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.
	REG	ON	SIP Trunk had registered to SIP Proxy Server
		OFF	SIP Trunk does not register to SIP Proxy Server
		FLASH	SIP Trunk data is configured. Some entity had been registered to SIP Proxy Server, however, some do not.
10/100 Ethernet	Link/ACT	ON	Network Linked Up
		FLASH	Sending/Receiving data packets
		OFF	Network Link Down
	100Mbps	ON	Transmission Rate is 100Mbps
		OFF	Transmission Rate is 10Mbps
Port Information	LOOP/ RING OUT (FXS)	ON	Loop current is detected on FXS port (Phone-set is pick up)
		FLASH	Sending ring signal
	LOOP/ RING IN (FXO)	ON	Loop current to FXO port (call is coming)
		FLASH	Incoming call is ringing

Description of Ports

Terminal	Label	Description
Voice	FXS	For analog phone set or FAX machine
	FXO	For public lines or trunk from Analog PBX
	BROADCAST (for MOSA 4603 Plus only)	For amplifier, speaker or earphone
Network	To WAN (MDI-X)	RJ-45 MDI-X terminal, for WAN
	To LAN (MDI)	RJ-45 MDI terminal, for LAN
RS-232	CDR	For CDR
	CONSOLE	For system console

2. Description of Web Page

System Info

System Information	
Regional ID:	0 (Taiwan)
MAC:	00-03-62-80-4C-86
Location Name:	
Software Version:	2.02.0
Phone Number:	862172235511
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:	211.21.40.178 / 20629
IP Address:	10.13.6.108 / 2000 / 5060
Subnet Mask:	255.255.255.0
Default Gateway:	10.13.6.130
Date:	2008/01/29
Time:	14:20:27
Parking Security Key:	168168
Voice Mail:	Ready

Type	Field	Description	Default Value
System Information	Region ID	Displays the Region ID (Country ID) of this machine.	(Read Only)
	MAC	Displays the MAC address of this machine	(Read Only)
	Location Name	Displays the identification name of this machine	(Read Only)
	Software Version	Display the Software Version of this machine	(Read Only)
	Phone Number	Display the complete number of this machine	(Read Only)
	VODNET ID	Display the VODNET ID of this machine	(Read Only)
	Card Type	Display the type of module card	(Read Only)

Type	Field	Description	Default Value
	Analog Channel	Displays the type of analog port Line : Available FXS ports Trunk : Available FXO ports	(Read Only)
	SIP Channel	Displays the type of SIP port Line : Available SIP Line ports Trunk : Available SIP Trunk ports	(Read Only)
	Public IP Address	Displays the external IP address (Public IP) / Call Control port number	(Read Only)
	IP Address	Displays the internal IP address (Private IP) / Call Control port number / SIP signaling port number	(Read Only)
	Subnet Mask	Displays the Subnet Mask of this machine	(Read Only)
	Default Gateway	Displays the Default Gateway of this machine	(Read Only)
	Date	Displays current date of this machine	(Read Only)
	Time	Displays current time of this machine	(Read Only)
	Parking Security Key	Displays Parking Security Key of this machine	(Read Only)
	Voice Mail	Displays current built-in voice mail status of this machine	(Read Only)

1.1. Basic Information

(Need Warm-Restart)

Apply

Cancel

Information

Regional ID: 00 (Taiwan)

Software Version: 2.02.0

BootRom Version: 1.00

Hardware Version: 2.00

Module Type: 4 PORT_FSO

Number of SIP Line: 72

Number of SIP Trunk: 24

Up-Time: 1 day 18 hr 0 min 2 sec

MAC Address: 00-03-62-80-4C-86

Location Name:

Time Configuration

Time Source: Auto Sync.

Date: 2008/01/25

Time: 11:26:01

Time Zone: Beijing, Hong Kong, Singapore, Taipei

DayLight Saving: Off

Time Server Function: Full

UDP Port Configuration

Call Control: 2000

SIP Message: 5060

Pickup Section: 2999

RTP Base: 10000

DISA

Analog Trunk Call: Enable

SIP Trunk Call: Enable

IP Call: Enable

No answer, send greeting: 25 (10~50 sec.)

Greeting Mode: Day (Week/Holiday)

My Phone Number

Country Code: 86

Area Code: 21

Phone Number: 72235511

My ID

VODNET ID: 28 - 6 - 200 : 4341 (-OK-)

Netmosa ID:

Web Management Password

User Name: WEB

Password:

Confirm Password:

Type	Field	Description	Default Value
Information	Region ID	Displays the Region ID (Country ID) of this machine. The ID on the screen is what the machine now using. Modify (button): Select new ID above and click this button to change. Do restart to take effect.	00
	Software Version	Displays the Software Version of this (Read Only) machine	
	BootRom Version	Displays hardware BootRom Version (Read Only) of this machine	
	Hardware Version	Displays hardware Version of this (Read Only) machine	
	Module Type	Display the type of module card (Read Only)	
	Number of SIP Line	Displays Available SIP Line ports (Read Only)	
	Number of SIP Trunk	Displays Available SIP Trunk ports (Read Only)	
	Up-Time	Display the elapse time since last start (Read Only)	
	MAC Address	Display the MAC address of HW equipment (Read Only)	
Time Configuration	Location Name	Displays the identification name of this machine	
	Time Source	Select the method to synchronize the system date and time Auto Sync : Synchronize automatically Manual : Entered manually ITSP Sync : Synchronize from the ITSP (Internet Telephony Service Provider) that this box registers to.	Auto Sync
	Date	Enter the date manually, valid only if “ Manual ” is selected in Time Source, In format yyyy/mm/dd	
	Time	Enter the time manually, valid only if “ Manual ” is selected in Time Source, in format hh:mm:ss	
	Time Zone	Select the time zone which the system is located	
	DayLight Saving	Select if daylight saving applied ON : daylight saving applied OFF : daylight saving not applied	OFF

Type	Field	Description	Default Value
	Time Server Function	When MOSA is ON, it connects to Internet automatically. Time SRVR LED shows the status that connects to Internet. However, not all environment is suitable for Internet connection, so administrator can enable/disable its function In VPN environment, some MOSA is able to connect Internet, some are not, then the public IP of the whole system is not consistent and call failed happens. This option can Sync time without interpret public IP	Full
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
	SIP Message	Define UDP port number for SIP packet transmission. The number is between the range of 0 – 65534 (Only even number is acceptable). (It is activated after system re-started)	5060
	Pickup Section	Define the port number for Pickup Section. If you would like to pick up the call of another MOSA 4600, the Subnet Mask and Pickup Section of both sides must be same.	2999
	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)	10000
DISA	Analog Trunk Call	Auto attendant (DISA) for incoming FXO port Enable : DISA answer the call Disable : DISA don't answer the call	Enable
	SIP Trunk Call	Auto attendant (DISA) for incoming SIP Trunk port Enable : DISA answer the call Disable : DISA don't answer the call	Enable
	IP Call	Auto attendant (DISA) for incoming IP Call Enable : DISA answer the call Disable : DISA don't answer the call	Enable
	No answer, send greeting	Dial extension number after greeting. If the extension is not answered for the seconds configured here, the call is back to greeting section 6 of DISA.	25

Type	Field	Description	Default Value
	Greeting Mode	Select the Greeting Mode of office hours, off duty and holiday Day : Greeting of office hours is activated (greeting section 1) Night : Greeting of off duty is activated (greeting section 5)	Day
My Phone Number	Country Code	Country Code of the location of this machine (such as China: 86, USA: 1)	(According to Country Code of Region ID)
	Area Code	Area Code of the location of this machine (such as Shanghai: 21, Taipei: 2)	(Area code of Capital city according to the Country of region ID)
	Phone Number	Enter the PSTN telephone number connected (FXO).	(Phone Number created from MAC address)
My ID	VODNET ID	VODNET ID is displayed if registration is successful; "OK" is displayed if register to VODNET	
	Get	Request VODNET ID	
	NETMOSA ID	NETMOSA ID is displayed if registration is successful; "OK" is displayed if register to NETMOSA	
Web Management	User Name	User Name to login Web	WEB
	Password	Password to login Web	
	Confirm Password	Double confirm the password to login Web (has to be consistent with the Password above)	

Greeting Mode: Week set

Day/Night Time Setting					
Day Time	Start		End		All
Mon.	09	00	18	00	☐ Day ☐ Night
Tue.	09	00	18	00	☐ Day ☐ Night
Wed.	09	00	18	00	☐ Day ☐ Night
Thu.	09	00	18	00	☐ Day ☐ Night
Fri.	09	00	18	00	☐ Day ☐ Night
Sat.	09	00	18	00	☐ Day ☐ Night
Sun.	00	00	18	00	☐ Day ☐ Night
All week as Mon.					

Description

Type	Field	Description	Default Value
Day/Night Time Setting	Day Time	Setting from Mon. to Sun. (Today is marked as yellow block)	

Type	Field	Description	Default Value
	Start	Start time of day (On duty time)	09 : 00
	End	End time of day (Off duty time). Duration between Start and End plays day greeting. System plays night greeting at other period of time.	18 : 00
	All	✓ Day means all day play day greeting ✓ Night means all day play night greeting	
	All week as Mon. (button)	Setting from Tue. To Sun. are all the same as Mon.	

Greeting Mode: Holiday

Holiday Setting				
No.	Start (MM/DD)		End (MM/DD)	Enable
1	01	/	01	☐
2	01	/	01	☐
3	01	/	01	☐
4	01	/	01	☐
5	01	/	01	☐
6	01	/	01	☐
7	01	/	01	☐
8	01	/	01	☐
9	01	/	01	☐
10	01	/	01	☐
11	01	/	01	☐
12	01	/	01	☐

In this section, we describe the time configuration of special holiday

- ◆ There are 12 periods of available time. From Start date to End date.
- ◆ If Start date is the same as End date, it means that there is only one day of holiday.
- ◆ If the duration runs across a year, then 2 sections of time are required. For this example, 12/31~1/1, it needs to configure 2 sections, 12/31~12/31 and 1/1~1/1 are required.
- ◆ If these settings conflict with Day/Night Time Setting (based on weekdays), the settings here have higher priority

- ◆ Configure Start day and End day and click Apply to take effect.

1.2.PBX Access Code

(Need Warm-Restart)

Apply

Cancel

Access Codes

OnNet Calls & Auto Route Calls:	**
Seize Analog Trunk Access:	9
Seize SIP Trunk Access:	8
Phoneset Programming:	*0
Abbr. Dial:	*2
Call Pick UP:	*7
Call Pick Up with Extension:	*4
Operator:	0
VODNET Call:	*3
Seize Remote Trunk:	*9
Seize Specific Trunk (Class):	*8
Call Retrieve:	*1
Dialing Mode of Call Transfer/Park:	##Ext. / #*Ext.
Message Waiting On:	
Message Waiting Off:	

Other Setting

Assign Operator to:	Day: N/A /Night: N/A
Max. Number of IP Calls:	90
IP Call Priority:	PhoneBook-Outbound-VODNET
VM Prefix:	
VM Suffix:	

Type	Field	Description	Default Value
Access Code	OnNet Calls & Auto Route Calls	Access Code to make OnNet IP Call or Auto Route Call	**
	Seize Analog Trunk Access	Access code to Seize Analog Trunk (FXO)	9
	Seize SIP Trunk Access	Access code to Seize SIP Trunk	8
	Phoneset Programming	Access code to enter Phoneset Programming mode	*0
	Abbr. Dial	Access code to make abbr. Dial call	*2
	Call Pick Up	Access code to pick up other extension	*7
	Call Pick Up With Extension	Access code to pick up specified extension	*4
	Operator	Access code to reach Operator	0
	VODNET Call	Access code to make VODNET Call	*3
	Seize Remote Trunk	Access Code to Seize the Trunk group of the remote gateway, but you has to obtain the permission previously. That means, in the seized side, the information of the other side is defined in the list of Outbound Permission, the Trunk Call Allowed is set to Yes Dialing Method : <Seize Remote Trunk Access Code> + <Country Code> +<Area Code>+<#> ° For example, there is a system in Taipei, and a system in Shanghai. You may dial the access code of “Seize Remote Trunk”, e.g. *9 8621#, from the extension line in Taipei to seize the trunk of Shanghai.	*9
	Seize Specific Trunk (Class)	Access Code to Seize the Specific Trunk of specified machine, but you have to obtain the permission previously. That means, in the seized side, the information of the other side is defined in the list Outbound Permission, the Trunk Call Allowed is set to Yes, and Extension number to specified machine is configured. Dialing Method: <Seize Specific Trunk Access Code> + <Extension Number> +<Class ID>+<#>. For example: *8 10 2#	*8
	Call Retrieve	When this machine is connected with Parking Server and the call is parking on the server, dial this access code to retrieve the call	*1

Type	Field	Description	Default Value
	Dialing Mode of Call Transfer/Park:	For normal transfer (## or Flash + No.), add a suffix # can shorten dialing behavior For Call park (## or Flash + No.), add a suffix * to end dialing is required. Use this function can move # or * forward without any suffix of each dialing. ➤ ##Ext.# / ##Ext.* : Normal operation with suffix # for call transfer and suffix * for call park ➤ ##Ext. / #*Ext. : operation without suffix # for call transfer and suffix * for call park	##Ext.# / ##Ext.*
	Message Waiting On	New voice message prompt code. Codes for VM to notify the extension that new voice message is waiting for retrieved. This codes setting must be the same as the new voice message prompt code of VM	
	Message Waiting Off	All new voice messages are retrieved code. Codes for VM to notify MOSA 4600 that all new voice messages are retrieved. This codes setting must be the same as the "All new voice messages are retrieved" code of VM	
Other Setting	Assign Operator to :	Assign an extension line as the Operator. "Day" is the operator at day time and "Night" is the operator at night time. This function has to work with the day/night greeting mode of this machine. If operator is not assigned in this machine (called network operator), set to N/A.	1
	Maximum number of IP Calls :	The maximum number of IP Call can be made. The default value is the number of extension line. It is recommended to plan it depending on the bandwidth.	
	IP Call Priority	Configure the phone number searching priority for outbound call. 1. PhoneBook-Outbound-VODNET : The system search phone number according to this sequence. 2. PhoneBook-VODNET-Outbound- : Change to different sequence	PhoneBook-Outbound-VODNET
	VM Prefix	Prefix code to activate VM function	The actual code that VM receives are VM Prefix +
	VM Suffix	Suffix code to activate VM function	Ext. No. + VM Suffix

1.3.Extension Number

		Apply	Cancel
Network Operator			
Extension Number:			
PBX Group			
Group Number:			
Prefix/Extension Number Mapping List			
Maximum:	600		
Entered:	1		
Max. Length of Prefix/Ext. No.:	6		
		Page 1 / 1	Show << >>
Prefix/Ext. No.	Phone Number	Type	Delete
10	0	iPBX	Delete
	Prefix/Ext. No.	Phone Number	Type
Add/Modify:			Phone v
Delete:			
Delete All:	Delete All		
Search List:		Search	

Type	Field	Description	Default Value						
Network Operator	Extension Number	Enter the prefix number of equipment that the Operator is defined. Normally the Operator of own system will be connected if Access Code for Operator (default is “0”) is dialed. If the Operator of own system 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 own system: <table><tr><td>Prefix/Ext. No</td><td>Phone Number</td><td>type</td></tr><tr><td>33</td><td>886282268888</td><td>iPBX</td></tr></table> If the Operator is assigned to equipment with prefix 33, then enter 33 in this field	Prefix/Ext. No	Phone Number	type	33	886282268888	iPBX	
Prefix/Ext. No	Phone Number	type							
33	886282268888	iPBX							

Type	Field	Description	Default Value
PBX Group	Group Number	When location is expanded, several IP-PBX at the same location can be grouped with group number. The extension number at different location keeps the same and only new prefix has to be added. Dial new number with the rule Group Number + original extension number.	
Prefix/Extension Number Mapping List	Maximum	The maximum number of equipment can be entered. (read only)	600
	Entered	The number of equipment has been entered (read only)	1
	Max Length of Prefix/Ext. No.	The maximum length of Prefix number (read only)	6
	Add/Modify	Add/Modify a Prefix number	
		Prefix/Ext. No. : Enter the Prefix number for other equipment, maximum length is 6	
		Phone Number : Input the Phone Number or VODNET ID of that specified machine	
		Type : 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 extension number (prefix ID + Ext No), or prefix number plus "0" (prefix ID + 0 (operator)). Conference: It has to work with FONEMOSA 4496 (Conference Bridge). When chairman had invite one person to conference, chairman can dial # and invite next person to join.	Phone
	Delete Entry	Delete Prefix/Ext. No.	
	Delete All Entry	Delete all data of Prefix/Ext. No.	No
	Search List	Input the Prefix/Ext. No. prefigured that you want to search Search : Click this button to search number in Search List	

1.4.Trunk Group/Class

Trunk Group Configuration																
Analog Trunk Group (1)																
Allow Remote Access:	Yes															
Same Area Trunk Access:	Yes															
Channel Member:	5, 6, 7, 8,															
SIP Trunk Group (2)																
Allow Remote Access:	Yes															
Same Area Trunk Access:	Yes															
Channel Member:																
Trunk Class Configuration																
	Analog											SIP				
Trunk Class	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Telephony Group	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Incoming Only	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Type	Field	Description	Default Value
Trunk Group Configuration - Analog Trunk Group (1)	Allow Remote Access	Setup the ports in this trunk group to be allowed for making Transit Call from remote gateway	Yes
	Same Area Trunk Access	Configure the ports in this group to be accessed from other gateway with the same area (same area code).	Yes
	Channel Member	Shows FXO channels in this group (read only)	Depends on FXO port
Trunk Group Configuration - SIP Trunk Group (2)	Allow Remote Access	Setup the ports in this SIP trunk group to be allowed for making Transit Call from remote gateway	Yes
	Same Area Trunk Access	Configure the ports in this group to be accessed from other gateway with the same area (same area code).	Yes
	Channel Member	Shows SIP Trunk channels in this group (read only)	Depend on SIP Trunk port
Trunk Class Configuration	Telephony Group	Configure this Trunk Class to be accessed by auto routing and by seize trunk	✓
	Incoming Only	Configure this Trunk Class accept incoming call only (outgoing call is not allowed)	

1.5.Outbound Permission

Permission List of Outbound Transit				
Maximum:	192			
Entered:	1			
Outbound Waiting List...		Page 1 / 1 Show << >>		
MAC Address	Phone Number	Attempts	Duration	Route Type
00-03-62-80-41-51+	886218405329	0000	0000	Toll
	MAC Address	Phone Number	Route Type	Trunk Call Allowed
Add/Modify:			Local v	No v
Delete:				
Delete All:	No v			
Clear Statistics:				
Search List:		Search		

Type	Field	Description	Default Value
Permission List Of Outbound Transit	Maximum	Display the Max No. of list can be entered (Read Only)	192
	Entered	Display the No. had been entered (Read Only)	1
		Display the detailed data (Read Only) - MAC Address: MAC address of the remote equipment that is permitted for Outbound Transit Call. If “ + ” is followed means trunk port can be seized by this equipment - Phone Number: Phone number who has the permission for Outbound Transit - Attempts: The No. of times to make the outbound transit call (including the calls that are not successful) from the phone list here via this machine, please refer to the field of “Clear Statistics” in same page if you like to clear the data - Duration: During time in second of all outbound transit call (including the calls are not successful) from phone list here via this machine, please refer the field of “Clear Statistics” in same page if you like to clear the data - Route Type: The route type of outbound transit call	

Type	Field	Description	Default Value
	Add/Modify	Enter the detail data of the remote equipment that the outbound transit call is permitted via this machine. Two kinds of data have to be input. 1. MAC Address: MAC Address of the remote equipment (full address of six sections, e.g. 00-03-62-80-13-49)	
		2. Phone Number: Complete telephone number of the remote equipment including country code and area code, e.g. 886282263368704. Input English alphabet "X" here and then click Apply, system will input the entry with the phone number of this machine automatically.	
		3. Route Type: Type of the call can be made Local: Local call only Toll: Local, Toll call and Mobile call only Specified: call to the area specified only	Local
		4. Trunk Call Allowed: If the FXO/SIP Trunk port can be seized by this remote equipment (No/Yes) No: FXO/SIP Trunk port seized by remote is allowed Yes: FXO/SIP Trunk port seized by remote is NOT allowed	No
	Delete	Enter the MAC Address of the equipment that will be deleted from the list of Permission List of Outbound Transit	
	Delete All	No : No action Yes : Delete all entry in this table	No
	Clear Statistic	To clear the statistics data of certain entry in the list of Permission List of Outbound Transit, just enter the MAC Address of the equipment	
	Search List	Input the MAC address prefigured in this table that you want to search Search : Click this button to search number in Search List	

Outbound Waiting List

Outbound Waiting List			
Maximum:	192		
Entered:	0		
		Page 1 / 1	Show <<"/> >>"/>
☐	MAC Address	Phone Number	IP Address Port
		Route Type	Trunk Call Allowed
Add Selected:	Local	v	No v Add
Delete All:	Delete		
Filter Phone Number:		Filter	

Type	Field	Description	Default Value
Outbound Waiting List	Maximum	Display the Max No. of list can be entered (Read Only)	192
	Entered	Display the No. had been entered (Read Only)	0
	Add Selected	1. MAC Address: MAC address of the remote equipment that is permitted for Outbound Transit Call.	
		2. Phone number which has the permission for Outbound Transit	
		3. IP address which has the permission for Outbound Transit	
	Delete All	4. Control port number which has the permission for Outbound Transit	
	Add Selected	1. Route Type: Type of the call can be made Local: Local call only Toll: Local, Toll call and Mobile call only Specified: call to the area specified only	Local
		2. Trunk Call Allowed: If the FXO/SIP Trunk port can be seized (second dial) by this remote equipment (No/Yes) No: FXO/SIP Trunk port seized by remote is allowed Yes: FXO/SIP Trunk port seized by remote is NOT allowed	No
	Delete All	Delete all entries in the list	

	Filter Phone Number	Filter (search) the number in the list you want. Input the number (prefix or full number) you want to filter Filter: Input number and click this button to filter	
--	---------------------	---	--

1.6.Specified Route

Apply Cancel	
Specified Route Configuration	
Maximum:	32
Entered:	0
Route List:	
Page 1 / 1 Show << >>	
Route	Cost
Trunk	
Add/Modify Routes:	Route Cost Trunk Disable
	Route Cost Trunk Disable
	Route Cost Trunk Disable
	Route Cost Trunk Disable
Delete Routes:	Route
	Route
	Route
	Route

Type	Field	Description	Default Value
Specified Route Configuration	Maximum	Display the maximum number of route can be defined	32
	Entered	Display the number of route defined	0
	Route List	Display the list of the route defined	
	Add/Modify Entries	Add or modify the route Route: the specified route to be added (e.g. if the permission to the route of Taipei area is offered, then enter 8862) Cost: Priority of route (Route for the area same as the location of the equipment installed have highest priority with cost "0", the cost sequence is from 0 to 95) Trunk : The trunk type selection of this route	Disable

		Disable : The route is not allowed FXO Only : Only route to analog FXO trunk is allowed SIP Only : Only route to SIP Trunk is allowed FXO - SIP : Route to FXO trunk first, if all FXO trunk are busy, then go SIP trunk SIP - FXO : Route to SIP trunk first, if all SIP trunk are busy, then go FXO trunk	
	Delete Entries	Delete the route you input Route : Delete Route	

1.7.Offnet Forward

		Apply	Cancel
Permitted Phone Number of Offnet Forward			
Maximum:	128		
Entered:	0		
Offnet Forward Tracking List...		Page 1 / 1	Show << >>
Offnet Number	Trunk	Attempt	Duration
	Phone Number	Trunk	
Add/Modify:		Disable v	
Delete:			
Clear Statistics:			
Search List:		Search	

Type	Field	Description	Default Value
Permitted Phone Number for Offnet Forward	Maximum	Maximum number of telephone number permitted for offnet forward (Read Only)	128
	Entered	The number of telephone number had been entered (Read Only)	0
		Display the detail data in the list of "Permitted Phone Number for Offnet Forward" (Read Only)	
		1. Offnet Number: The phone number that is permitted for Offnet Forward 2. Trunk: the trunk type that is permitted for Offnet Forward 3. Attempts: The number of Offnet Forward calls to the defined phone number via this machine. 4. Duration: The time duration of Offnet Forward, by the unit of second, to the defined phone number via this machine	

	Add/Modify Entry	Phone Number : Enter a new phone number that is permitted for Offnet Forward via this machine. 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 the trunk interface 1. Disable : not allowed for Offnet Forward 2. FXO : via FXO port 3. SIP : via SIP Trunk port	
	Delete	Enter the phone number to be deleted from the list of "Permitted Phone Number for Offnet Forward"	
	Clear Statistics	Enter the phone number to clear the statistics data of this entry from the list of "Permitted Phone Number for Offnet Forward"	
	Search List	Search the data in "Permitted Phone Number for Offnet Forward" list. Input the number you want to search Search: input data in Search List and click this button to search.	

Offnet Forward Tracking List

Offnet Forward Tracking List			
Maximum:	200		
Entered:	0		
		Page 1 / 1	Show << >>
☐	MAC Address	Channel	Phone Number
Offnet Number			
Trunk			
Add Selected:	Disable Add		
Delete All:	Delete		
Filter Condition			
MAC Address:			and
Phone Number:			and
Offnet Number:			Filter

Type	Field	Description	Default Value
Offnet Forward Tracking List	Maximum	Maximum number of Tracking List (Read Only)	200
	Entered	The number of Tracking List had been entered (Read Only)	0
		1. MAC Address : MAC address of Offnet Forward Tracking List 2. Channel : Channel of Offnet Forward Tracking List 3. Phone Number : Phone Number of Offnet Forward Tracking List 4. Offnet Number : Offnet Phone Number of Offnet Forward Tracking List	
	Add Selected	Trunk : Trunk Interface for Offnet Forward Disable : not allowed for Offnet Forward FXO : Via analog FXO port SIP : Via SIP Trunk Add : add into list	Disable
	Delete All	Delete all entries in Tracking List	
	Filter Condition	Filter (search) the number in the list you want. Input the MAC Address you want to filter Input the Phone Number (prefix or full number) you want to filter Input the Offnet Number (prefix or full number) you want to filter Filter: Input the filter condition and click this button to filter	

1.8.Inbound Password

		Apply	Cancel
Password For Inbound Transit			
Maximum:	200		
Entered:	0		
Entry List:			
Page 1 / 1		Show	<< >>
Password		Class	
Add Password:			Disable v
Delete Password:			
Search List:			Search

Type	Field	Description	Default Value
Password For Inbound Transit	Maximum	Maximum number of entries allowed (Read Only)	200
	Entered	The number of entries had been entered (Read Only)	0
	Entries List	Display the detail data in the list (Read Only)	
	Add Passwords	Password : Input the password you want to add, can be digit 1~9 or *, #, max 8 digits	
		Class: Disable: Can NOT make the PSTN-IP-PSTN call Local: Can make the PSTN-IP- to a local call Toll: Can make the PSTN-IP- to a local or toll call International: Can make the PSTN-IP- to a local or toll or international call ※The privilege is relative to the MOSA 4600 Plus Country/Area Code of the equipment that caller dials to	Disable
	Delete Passwords	Enter the password to be deleted, refer the detail data under Entries List	
	Search List	Enter the password to be search, click button Search , the privilege class will be displayed (one of Disable, Local, Toll, International is displayed)	

2.1.Summary

2.1.1 Home



[Channel Upgrade](#)

Type	Field	Description	Default Value
Channel Status	Idle	Port is available	
	Conversation	Port is under conversation (when it is considered as successful IP call by this machine)	
	In Use	Port is in use	
	Ringing	Port is ringing	
	Off line (For SIP Line Use Only)	SIP Line port has not yet registered from SIP device.	
	Pool (For SIP Line Use Only)	SIP Line port that is specified as pool port that is shared for all SIP Line user.	
	Disable	Port is disabled	

Channel Upgrade

License Key
Box Info
5Fjw - T414 - 5dh7 - 4411
Upgrade Key
- - - -
Authentication Key
- - - -
Result :
Current License
SIP Line Capacity : 72 SIP Trunk Capacity : 24 Smart Pad Control : Yes Voice Mail : Yes Smart Console : No

Type	Field	Description	Default Value
------	-------	-------------	---------------

License Key	Box Info	If license upgrade is required, please contact with your distributor with this data, the MAC address of this machine and license fee.	Different for each one
	Upgrade Key	Key for Upgrade	
	Authentication Key	Key for Authentication Attention: System will be locked for several times of wrong input key. Return to us for maintenance with your own shipping fee is required. Not to try it is suggested.	
Result	Current License	The License quota or function that had been subscribed SIP Line Capacity : Available IP Line SIP Trunk Capacity : Available IP Trunk Smart Pad Control : Able or not to use Smart Pad to dial call via this machine Voice Mail : Able or not to use built-in Voice Mail Smart Console : Able or not to use Smart Console software to control this machine	

Channel Type : FXS

Analog Channel												
Ch	St	Suffix	Type	DND	Fwd	Barring Class	T.38	Statistics In/Out	PickUp/Group	Ext. No.	Voice Mail	Gain In/Out
1		11/OP*	FXS	-	-	0	-	0/0	✓ / 1	1011	-	0/0
2		12/OP	FXS	-	B/N	0	-	0/0	✓ / 1	1012	-	0/0

Type	Field	Description	Default Value
Analog Channel (FXS Channel)	Ch	Channel Number (Read Only)	
	St	Port Status	
	Suffix	Suffix Number of port 00~99 : Specified suffix number OP : This port belong to operator group , "*" means this is the first operator	
	Type	Port type: 2 kinds, FXS and FXO	
	DND	When DND is enabled, incoming call is denied.	

	Fwd	Forward status of this port A : All Calls (all call is forwarded) B : Busy (call is forwarded when line is busy. Forward 1 time only) B/C : Busy Cascade (call is forwarded when line is busy, Forward max 16 times) N : No Answer (call is forwarded when no one answer the phone till timeout (time of "No answer, send greeting" minus 5 seconds) B/N : Busy/No Answer (call is forwarded when line busy or no answer till timeout (time of "No answer, send greeting" minus 5 seconds) * : Means offnet call forward is configured	
	Barring Class	There are classes 0, 1~6. 0 means no barring.	0
	T.38	T.38 status (for FAX only).	-
	Statistics In/Out	Call In/Out attempts.	0/0
	PickUp/Group	Pickup permission / Which pickup group ■ ✓ : Incoming call can be pickup by other Blank: Can not be pickup ■ Pickup group number	✓/1
	Ext. No.	Extension Number of this port	
	Voice Mail	Work with Voice Mail product	- (No)
	Gain In/Out	Voice volume up/down control of this port	0/0

The configuration windows when you click **Ch**

(Need Warm-Restart)
Apply
Cancel

Analog FXS Channel														
Ch	Sfx	Adm	Ctrl	Forward To	Offnet To	Soft Key String	Mode	TrigDigit	Append	User Name	BC	OTC	OP	PickUp
{001, 11, EN, D,				,	,	,	P,			N, Ext11		0, INT, YES, 1},		
{002, 12, EN, D,				,	,	,	P,			N, Ext12		0, INT, YES, 1},		

Note

Field	Name	Length	Description
Ch	Channel	3	not be zero
Sfx	Suffix	2	00 ~ 99
Adm	Admin. State	3	EN:Enable / DIS:Disable
Ctrl	Forward Control	2	Line - D:Disable A:All B:Busy BC:BusyCascade N:NoAnswer BN:BusyNoAnswer Trunk - D:Disable A:All P:PrivateLine P2:PrivateLine2 DN:DayNight
Forward To	-	21	0 ~ 9
Offnet To	-	23	0 ~ 9 P
Soft Key String	-	22	0 ~ 9 * #
Mode	Trigger Mode	1	P:Key Press / A:Auto
TrigDigit	Trigger Digits	12	0 ~ 9 * #
Append	Append Trigger Digits	1	A:Append / N:Not Append
User Name	-	22	User Name / Description
BC	Barring Class	2	0 ~ 6
TC	Trunk Class	2	FXO:0 ~ 11 / SIP Trunk:12 ~ 15
OTC	Outbound Transit Control	3	DIS:Disable / LOC:Local / TOL:Toll / INT:International
OP	Join Operator Group	3	YES / NO
CID	Caller ID Detect	3	YES / NO
PickUp	Pick Up Group	1	0:OP / 1 ~ 9

When technician installs the machine at the first time, or this machine is installed to different environment again, it might

be possible that change individual settings for each channel (especially the IP Line) is required. It may take lots of time to configure settings by entering each web page for individual port, especially when Softkey and/or SIP account is different for each channel. This feature provides text-based configuration.

- ◆ User can edit a text file by Windows Notepad software. Copy this text content and paste it into this window. Click Apply to take effect the settings of certain channel or all channels.
- ◆ User also can copy the current data on this window and paste & save to a text file. If there are any changes in the future, edit the text file and paste into the window again, and then click Apply.

Upper part of window shows all Channel settings. Lower part of window shows the meanings and string length of each field.

Each field has to be separated by " , ". Heading and ending of each entry has to be included by { }. Add new entry at the end of last line when new data has to be added.

The information of each field

For the detail information of each field, please refer to section **FXS Channel Setting**

Items	Description
Field	Abbreviation of field
Name	Full name of this field
Length	String field
Description	Description of this field and value available

Default values are set when this machine is shipped from our company. User can refer to the default value and the information of this table to input the correct type of text file.

Click Apply to take effect.

Channel Type : FXO

Ch	St	Access	Type	Error Count	Fwd	Trunk Class	T.38	Statistics In/Out	Last Number Dialed	Gain In/Out
3		9	FXO	0	-	0	✓	0/0	-	0/0
4		9	FXO	0	-	0	✓	0/0	-	0/0

Type	Field	Description	Default Value
Analog Channel (FXO 端口)	Ch	Channel Number (Read Only)	
	St	Port Status	
	Access	Access code to seize this port	9
	Type	Port type: 2 kinds, FXS and FXO	
	Error Count	The error counter of FXO port. If there is any counter numbers other than 0, please check the trunk that this port connects to.	0
	Fwd	Call forward control of this port A : All Calls (all incoming call is forwarded) P: Private Line (all call forward with private line function) * : Means offnet call forward is configured	
	Trunk Class	Trunk class group, 0, 1~11, totally 12 groups	0
	T.38	T.38 status (for FAX only).	✓
	Statistics In/Out	Call In/Out attempts.	0/0
	Last Number Dialed	Phone number of this port that is dialed last time	
	Gain In/Out	Voice volume up/down control of this port	0/0

The configuration windows when you click **Ch**

Analog FXO Channel											(Need Warm-Restart)	Apply	Cancel
Ch	Adm	Ctrl	Forward To	Offnet To	Soft Key String	Mode	TrigDigit	Append	Description	TC	CID		
1003	EN	D	,	,	,	P		N		0	NO	}	▲
1004	EN	D	,	,	,	P		N		0	NO	}	▼
Note													
Field	Name	Length	Description										
Ch	Channel	3	not be zero										
Sfx	Suffix	2	00 ~ 99										
Adm	Admin. State	3	EN:Enable / DIS:Disable										
Ctrl	Forward Control	2	Line - D:Disable	A:All	B:Busy	BC:BusyCascade	N:NoAnswer	BN:BusyNoAnswer					
			Trunk - D:Disable	A:All	P:PrivateLine	P2:PrivateLine2	DN:DayNight						
Forward To	-	21	0 ~ 9										
Offnet To	-	23	0 ~ 9 P										
Soft Key String	-	22	0 ~ 9 * #										
Mode	Trigger Mode	1	P:Key Press / A:Auto										
TrigDigit	Trigger Digits	12	0 ~ 9 * #										
Append	Append Trigger Digits	1	A:Append / N:Not Append										
User Name	-	22	User Name / Description										
BC	Barring Class	2	0 ~ 6										
TC	Trunk Class	2	FXO:0 ~ 11 / SIP Trunk:12 ~ 15										
OTC	Outbound Transit Control	3	DIS:Disable / LOC:Local / TOL:Toll / INT:International										
OP	Join Operator Group	3	YES / NO										
CID	Caller ID Detect	3	YES / NO										
PickUp	Pick Up Group	1	0:OP / 1 ~ 9										

When technician installs the machine at the first time, or this machine is installed to different environment again, it might be possible that change individual settings for each channel (especially the IP Line) is required. It may take lots of time to configure settings by entering each web page for individual port, especially when Softkey and/or SIP account is different for each channel. This feature provides text-based configuration.

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- ◆ User also can copy the current data on this window and paste & save to a text file. If there are any changes in the future, edit the text file and paste into the window again, and then click Apply.

Upper part of window shows all Channel settings. Lower part of window shows the meanings and string length of each field.

Each field has to be separated by ", ". Heading and ending of each entry has to be included by { }. Add new entry at the end of last line when new data has to be added.

The information of each field

For the detail information of each field, please refer to section **FXO Channel Setting**

Items	Description
Field	Abbreviation of field
Name	Full name of this field
Length	String field
Description	Description of this field and value available

Default values are set when this machine is shipped from our company. User can refer to the default value and the information of this table to input the correct type of text file.

Click Apply to take effect.

Channel Type : SIP Line

SIP Line											
Ch	St	Suffix	Entity	DND	Fwd	Barring Class	2833 Status	Statistics In/Out	PickUp/Group	Ext. No.	User Name
5		27	1	-	-	0	-	0/0	✓/2	1027	Ext27
6		28	1	-	-	0	-	0/0	✓/2	1028	Ext28

Type	Field	Description	Default Value
SIP Line (SIP Extension)	Ch	Channel Number (Read Only)	
	St	Port Status	
	Suffix	Suffix Number of port 00~99 : Specified suffix number OP : This port belong to operator group , "*" means this is the first operator	
	Entity	SIP Entity group that this port joins	1
	DND	When DND is enabled, incoming call is denied.	
	Fwd	Forward status of this port A : All Calls (all call is forwarded) B : Busy (call is forwarded when line is busy. Forward 1 time only) B/C : Busy Cascade (call is forwarded when line is busy, Forward max 16 times) N : No Answer (call is forwarded when no one answer the phone till timeout (time of "No answer, send greeting" minus 5 seconds) B/N : Busy/No Answer (call is forwarded when line busy or no answer till timeout (time of "No answer, send greeting" minus 5 seconds) * : Means offnet call forward is configured	
	Barring Class	There are classes 0, 1~6. 0 means no barring.	0
	2833 Status	Send DTMF with RFC 2833	
	Statistics In/Out	Call In/Out attempts.	0/0
	PickUp/Group	Pickup permission / Which pickup group ■ ✓ : Incoming call can be pickup by other Blank: Can not be pickup ■ Pickup group number	✓/2
	Ext. No.	Extension Number of this port	
	User Name	Account Name that SIP client to register to this port.	Ext27~Ext98, depends on the ports you purchase.

The configuration windows when you click **Ch**

(Need Warm-Restart)
Apply
Cancel

SIP Line Channel

Ch	Sfx	Adm	Ctrl	Forward To	Offnet To	Soft Key String	Mode	TrigDigit	Append	User Name	BC	OTC	OP	PickUp
{005, 27, EN, D, , , , P, , N, 1027, , 0, INT, NO, 2},														
{006, 28, EN, D, , , , P, , N, 1028, , 0, INT, NO, 2},														
{007, 29, EN, D, , , , P, , N, 1029, , 0, INT, NO, 2},														
{008, 30, EN, D, , , , P, , N, 1030, , 0, INT, NO, 2},														
{009, 31, EN, D, , , , P, , N, 1031, , 0, INT, NO, 2},														
{010, 32, EN, D, , , , P, , N, 1032, , 0, INT, NO, 2},														
{011, 33, EN, D, , , , P, , N, Ext133, , 0, INT, NO, 2},														
{012, 34, EN, D, , , , P, , N, Ext134, , 0, INT, NO, 2},														
{013, 35, EN, D, , , , P, , N, Ext135, , 0, INT, NO, 2},														
{014, 36, EN, D, , , , P, , N, Ext136, , 0, INT, NO, 2},														
{015, 37, EN, D, , , , P, , N, Ext137, , 0, INT, NO, 2},														
{016, 38, EN, D, , , , P, , N, Ext138, , 0, INT, NO, 2},														
{017, 39, EN, D, , , , P, , N, Ext139, , 0, INT, NO, 2},														
{018, 40, EN, D, , , , P, , N, Ext140, , 0, INT, NO, 2},														
{019, 41, EN, D, , , , P, , N, Ext141, , 0, INT, NO, 2},														
{020, 42, EN, D, , , , P, , N, Ext142, , 0, INT, NO, 2},														
{021, 43, EN, D, , , , P, , N, Ext143, , 0, INT, NO, 2},														
{022, 44, EN, D, , , , P, , N, Ext144, , 0, INT, NO, 2},														
{023, 45, EN, D, , , , P, , N, Ext145, , 0, INT, NO, 2},														
{024, 46, EN, D, , , , P, , N, Ext146, , 0, INT, NO, 2},														
{025, 47, EN, D, , , , P, , N, Ext147, , 0, INT, NO, 2},														
{026, 48, EN, D, , , , P, , N, Ext148, , 0, INT, NO, 2},														
{027, 49, EN, D, , , , P, , N, Ext149, , 0, INT, NO, 2},														
{028, 50, EN, D, , , , P, , N, Ext150, , 0, INT, NO, 2},														

Note

Field	Name	Length	Description
Ch	Channel	3	not be zero
Sfx	Suffix	2	00 ~ 99
Adm	Admin. State	3	EN:Enable / DIS:Disable
Ctrl	Forward Control	2	Line - D:Disable A:All B:Busy BC:BusyCascade N:NoAnswer BN:BusyNoAnswer Trunk - D:Disable A:All P:PrivateLine P2:PrivateLine2 DN:DayNight
Forward To	-	21	0 ~ 9
Offnet To	-	23	0 ~ 9 P
Soft Key String	-	22	0 ~ 9 * #
Mode	Trigger Mode	1	P:Key Press / A:Auto
TrigDigit	Trigger Digits	12	0 ~ 9 * #
Append	Append Trigger Digits	1	A:Append / N:Not Append
User Name	-	22	User Name / Description
BC	Barring Class	2	0 ~ 6
TC	Trunk Class	2	FXO:0 ~ 11 / SIP Trunk:12 ~ 15
OTC	Outbound Transit Control	3	DIS:Disable / LOC:Local / TOL:Toll / INT:International
OP	Join Operator Group	3	YES / NO
CID	Caller ID Detect	3	YES / NO

When technician installs the machine at the first time, or this machine is installed to different environment again, it might be possible that change individual settings for each channel (especially the IP Line) is required. It may take lots of time to configure settings by entering each web page for individual port, especially when Softkey and/or SIP account is different for each channel. This feature provides text-based configuration.

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- ◆ User also can copy the current data on this window and paste & save to a text file. If there are any changes in the future, edit the text file and paste into the window again, and then click Apply.

Upper part of window shows all Channel settings. Lower part of window shows the meanings and string length of each field.

Each field has to be separated by ",". Heading and ending of each entry has to be included by { }. Add new entry at the end of last line when new data has to be added.

The information of each field

For the detail information of each field, please refer to section **SIP Line Channel Setting**.

Items	Description
Field	Abbreviation of field
Name	Full name of this field
Length	String field
Description	Description of this field and value available

Default values are set when this machine is shipped from our company. User can refer to the default value and the information of this table to input the correct type of text file.

Click Apply to take effect.

Channel Type : SIP Trunk

SIP Trunk										
Ch	St	Access	Entity	Outgoing Only	Fwd	Trunk Class	2833 Status	Statistics In/Out	Reg.	Last Number Dialed
173		8	13	-	-	12	-	0/0	-	-
174		8	13	-	-	12	-	0/0	-	-
175		8	13	-	-	12	-	0/0	-	-
176		8	13	-	-	12	-	0/0	-	-

Type	Field	Description	Default Value
SIP Trunk	Ch	Channel Number (Read Only)	
	St	Port Status	
	Access	Access code to seize this port	8
	Entity	SIP Entity group that this port joins	13
	Outgoing Only	Shows if the port is for Outgoing call only	
	Fwd	Call forward control of this port A : All Calls (all incoming call is forwarded) P: Private Line (all call forward with private line function) * : Means offnet call forward is configured	
	Trunk Class	Trunk class group, 0, 1~11, totally 12 groups	12
	2833 Status	Send DTMF with RFC2833 protocol	
	Statistics In/Out	Call In/Out attempts.	0/0
	Reg.	The registration status of this port	
	Last Number Dialed	Phone number of this port that is dialed last time	

The configuration windows when you click **Ch**

For the picture, you can refer to the graph above

When technician installs the machine at the first time, or this machine is installed to different environment again, it might be possible that change individual settings for each channel (especially the IP Line) is required. It may take lots of time to configure settings by entering each web page for individual port, especially when Softkey and/or SIP account is different for each channel. This feature provides text-based configuration.

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- ◆ User also can copy the current data on this window and paste & save to a text file. If there are any changes in the future, edit the text file and paste into the window again, and then click Apply.

Upper part of window shows all Channel settings. Lower part of window shows the meanings and string length of each field.

Each field has to be separated by " , ". Heading and ending of each entry has to be included by { }. Add new entry at the end of last line when new data has to be added.

The information of each field

For the detail information of each field, please refer to section **SIP Trunk Channel Setting**

Items	Description
Field	Abbreviation of field
Name	Full name of this field
Length	String field
Description	Description of this field and value available

Default values are set when this machine is shipped from our company. User can refer to the default value and the information of this table to input the correct type of text file.

Click Apply to take effect.

2.1.2 FXS Channel Setting

Analog Line Information		User Name	
Channel:	1	Name:	Ext11
Extension Suffix:	11	Caller ID Alias:	
Admin. State:	Enable	Connected Device Type	
Operation State:	Enable	Type:	Phone
Do Not Disturb:	Disable	Outbound Transit Control	
Call Forward		Privilege:	International
Control:	Disable	Join Operator Group	
Forward To:		Yes/No:	Yes
Offnet To:		Voice	
Soft Key	Apply to All	Input Gain:	0 dB
Soft Key String:		Output Gain:	0 dB
Trigger Mode:	Key Press	Silence Suppression:	Enable
Trigger Digits:		My Pick Up Group	
Append Trigger Digit:	Not Append	Group ID:	1
Barring Class		Picked up By Others	
ID:	0	Control:	Yes
Battery Reverse		FXO Busy Tone Detect	
Control:	OFF	Control:	Disable
Outgoing Time Restriction		Phone Set Password	
Control:	No	Control:	Clear (no password)
Call Transfer			
Control:	Enable		
Statistics			
		Reset	Refresh
Counter Type	Value	Counter Type	Value
Call Attempt:	33	Outgoing Call OK:	30
Incoming Call:	40	Incoming Call OK:	40
Busy (sec):	3492	RcvDigit:	

Type	Field	Description	Default Value
Analog Line Information	Channel	Channel Number (Read Only)	
	Extension Suffix	Suffix number of this extension.	
	Admin. State	Control the active status of this port Enable : Enable this port Disable : Disable this port	Enable
	Operator State	The action status of this port (Read Only)	Enable
	Do Not Disturb	DND function Disable: Disable DND function (accept incoming and outgoing call) Enable: Enable DND (accept outgoing call only and incoming call is denied)	Disable
Call Forward	Control	Configure Forward status of this port ◆ Disable: Don't forward calls ◆ All Calls: All call is forwarded ◆ Busy: Call is forwarded when line is busy. Forward 1 time only ◆ Busy (Cascade): Call is forwarded when line is busy, Forward max 16 times ◆ No Answer: Call is forwarded when no one answer the phone till timeout (time of "No answer, send greeting" minus 5 seconds) ◆ Busy/No Answer: Call is forwarded when line busy or no answer till timeout (time of "No answer, send greeting" minus 5 seconds)	Disable
	Forward To	Destination Phone number that will be forwarded to. It can be full phone number or extension number	
	Offnet To	Destination Outgoing (PSTN) Phone number that will be forwarded to via other machine. If special character is used, such as PP1035, means when the call is answered (such as PBX), it dials 1035.	
Soft Key	Apply to All (button) (for V3.04 or later only)	When the Soft Key configuration of all FXS channels are the same, administrator can configure the soft key of any FXS channels and click this button to apply this configuration to all FXS channels. Note: All other soft key setting is overwritten if this button is used.	
	Soft Key String	Define the characters string of soft key. When the soft key is triggered (works with trigger mode), the string of soft key will be dialed. The maximum length of string is 22 digits.	

Type	Field	Description	Default Value
	Trigger Mode	Choose the Trigger mode to trigger the soft key: ■ Key Press: If the digits dialed matches with any one of the digits defined in Trigger Digits, the softkey is triggered and the number defined in softkey string will be dialed. ■ Auto: For FXS, it is triggered when phone-set in hook off status. For FXO, it is triggered when line is ringing.	Key Press
	Trigger Digits	Define the trigger digits to trigger the softkey E.g. define trigger digits as 123. softkey will be triggered if 1 or 2 or 3 is dialed.	
	Append Trigger Digit	Define if the trigger digit will be appended to the softkey sting as the last digit when dial out ■ Not Append: Not appended Trigger Digits ■ Append: Trigger digit is appended.	Not Append
Barring Class	ID	Which barring class this port uses. 0 means no barring.	0
Battery Reverse	Control	Battery Reverse is a mechanism for traditional PBX to judge ON hook or Off hook status. ON: Battery reverse is enabled OFF: Battery reverse is disabled	OFF
Outgoing Time Restriction	Control	Restrict call duration from this Analog FXS port to outgoing trunk call. (Yes/No). Please refer to 4.4.Telephony Tuning to adjust the duration time of this function	No
Call Transfer	Control	Enable/Disable Call Transfer function. It can be used for extension at hotel room or the environment that call transfer is not allowed When this control is Disabled, press ##, #* or Flash key in conversation mode is invalid. It doesn't activate Call Transfer / Call Park, however, call pick up is still available. Enable / Disable	Enable
User Name	Name	Define user name of this extension	

Type	Field	Description	Default Value
	Caller ID Alias	Each extension can configure a set of Alias caller ID. When user make call with this extension, this Alias caller ID is sent to called side. The MOSA 4600 Plus at called side compares it with the extension number table (Web Folder: 1.System Config.\1.3.Extension Number). If it matches, called side phone set shows extension number at table, otherwise, it shows this Alias as caller ID There are different kinds of Caller ID resource. For the result of shown caller ID, please refer to the mapping table (Note**1) behind this main table	(Blank)
Connect Device Type	Type	Connection type of this FXS port Phone : General phone line, analog phone-set Fax : Fax machine (fax purpose) Voice Mail : Voice mail (VM) product Tie Line : When this machine works with FONEMOSA 4491. The Redirect Map of 4491 can provide more extension numbers and it is not limited to FONEMOSA 4491's 100 channels. It also can make one step dialing to the PBX extension this is connected behind MOSA 4600 Plus. In this situation, the type of FXS has to be Tie Line. Please contact with us if you have this kind of operation.	Phone
Outbound Transit Control	Privilege	Define the privilege for Outbound Transit call Disable: Outbound Transit call is not allowed Local: Outbound Transit call to local call only Toll: Outbound Transit call to mobile phone and Toll call International: Outbound Transit call to international call The local call, toll call, or international call is judged from the location of the country code and area code defined in this gateway.	International
Join Operator Group	Yes/No	Define whether to join into Operator Group or not. Yes: join into Operator Group to behave as Operator No: Not join	Yes
Voice	Input Gain	Voice volume control of input call	0
	Output Gain	Voice volume control of output call	0

Type	Field	Description	Default Value
	Silence Suppression	Silent control for voice packet Enable: If silent happens in conversation, voice packet is not send (save bandwidth) Disable: Keep sending packet even silent happens	Enable
	FXO Busy Tone Det.	Activate the detection for the incoming trunk call that forward/transfer to this FXS channel. For special application only. When it is enabled, it might be possible that incoming call is disconnected accidentally, owing to misjudgment of this feature with the interference from PBX, manual DTMF that dial from user or other noise.	Disable
My Pick up Group	Group ID	Configure which pick up group of this port. There are OP and 1~9 groups are available. Only Group Member with the same pick up group can pick up each other. Member in OP group can pick up member in any group.	1
Pickupped By Others	Control	Define whether the call will be picked up by others Yes: Allowed to be picked up No: Not allowed to be picked up	Yes
Phone Set Password	Control	Clear: Click this button to clear the password of this extension	
Statistics	Reset	To reset the counter, tick Reset and click Apply button.	
	Refresh	Refresh Statistics counter	
	Counter Type	Call Attempt : Volume of calls Outgoing Call OK : Successful Outgoing Call Incoming Call : Incoming Call Attempt Incoming Call OK : Successful Incoming Call Busy(sec) : Total using time of this port RcvDigit : Show the current incoming number of this port	
	Value	Shows the value of statistics counter	0

(Note1)**

Alias (Note*1)	Group Number (Note*2)	My Phone Number, VODNET (Note*3)	Incoming Caller ID matches Ext. Table (Note*4)	Caller ID that shown on user's phone set
Y	Y	Yes	Yes	Ext. Table No. at called side MOSA
			No	Alias
Y	N	Yes	Yes	Ext. Table No. at called side MOSA

			No	Alias
N	Y	Yes	Yes	Ext. Table No. at called side MOSA
			No	Group Number
N	N	Yes	Yes	Ext. Table No. at called side MOSA
			No	Phone No. + Suffix of calling side

(Note*1) In web folder: 2.Channel Config.\2.1.Summary at the configuration of individual FXS and SIP Line

User Name	
Name:	Ext11
Caller ID Alias:	

(Note*2) In web folder: 1.System Config.\1.3.Extension Number

PBX Group	
Group Number:	

(Note*3): In web folder: 1.System Config.\1.1.Basic Information

My Phone Number	
Country Code:	86
Area Code:	21
Phone Number:	72235511
My ID	
VODNET ID:	28 - 6 - 200 : 4341
Netmosa ID:	

(Note*4): In web folder: 1.System Config.\1.3.Extension Number

Page 1 / 1 Show << >>			
Prefix/Ext. No.	Phone Number	Type	Delete
10	0	iPBX	Delete

	Prefix/Ext. No.	Phone Number	Type
Add/Modify:			Phone

2.1.3 FXO Channel Setting

Analog Trunk Information		Description	
Channel:	<u>9</u>		
Admin. State:	Enable	Default Caller ID:	None
Operation State:	Enable	Caller ID Detect	
Call Forward		Control:	No
Control:	Disable	Voice	
Forward To: (Ext. No.)	78127	Input Gain:	0 dB
Offnet To:		Output Gain:	0 dB
Soft Key Apply to All		Silence Suppression:	Enable
Soft Key String:		Trunk Class	
Trigger Mode:	Key Press	ID:	0
Trigger Digits:		FXO Loop Error Counter	
Append Trigger Digit:	Not Append	Counter:	0 Clear
Statistics Reset Refresh			
Counter Type	Value	Counter Type	Value
Call Attempt:	41	Outgoing Call OK:	41
Incoming Call:	34	Incoming Call OK:	34
Busy (sec):	3219	RcvDigit:	

Type	Field	Description	Default Value
Analog Line Information	Channel	Channel number (Read Only)	
	Admin. State	Control the active status of this port Enable : Enable this port Disable : Disable this port	Enable
	Operator State	The action status of this port (Read Only)	Enable
Call Forward	Control	Configure Forward status of this port Disable: Don't forward calls All Calls: All call is forwarded Private Line: All call with private line function Private Line-2: The same function as Private Line, furthermore, the extension number at Offnet Forward field also can seize this trunk port. Day/Night: Incoming trunk call can be forwarded to different destination according to day/night mode of DISA.	Disable

Type	Field	Description	Default Value
	Forward To	Destination Phone number that will be forwarded to. It can be full phone number or extension number	
	Offnet To	Destination Outgoing (PSTN) Phone number that will be forwarded to via other machine.	
Soft Key	Apply to All (button) (for V3.04 or later only)	When the Soft Key configuration of all FXO channels are the same, administrator can configure the soft key of any FXO channels and click this button to apply this configuration to all FXO channels. Note: All other soft key setting is overwritten if this button is used.	
	Soft Key String	Define the characters string of softkey. When the softkey is triggered (works with trigger mode), the string of softkey will be dialed. The maximum length of string is 22 digits.	
	Trigger Mode	Choose the Trigger mode to trigger the softkey: Key Press: If the digits dialed matches with any one of the digits defined in Trigger Digits, the softkey is triggered and the number defined in softkey string will be dialed. Auto: For FXS, it is triggered when phone-set in hook off status. For FXO, it is triggered when line is ringing.	Key Press
	Trigger Digits	Define the trigger digits to trigger the softkey E.g. define trigger digits as 123. softkey will be triggered if 1 or 2 or 3 is dialed.	
	Append Trigger Digit	Define if the trigger digit will be appended to the softkey sting as the last digit when dial out Not Append : Not appended Trigger Digits Append : Trigger digit is appended.	Not Append
Description		Write note for this port. If Default Caller ID below is used, input digits only here	

Type	Field	Description	Default Value
	Default Caller ID	Enable ◆ If Caller ID Detect (next field) is disabled, administrator can input digits at the field above to replace the digits that is sent to phone set. ◆ If Caller ID Detect (next field) is enabled (Bellcore), and incoming caller ID is detectable, Phone set shows the caller ID detected. If caller ID is not detectable, phone set shows digits in Description field. Disable: ◆ If Caller ID Detect (next field) is enabled (Bellcore), and incoming caller ID is detectable, Phone set shows the caller ID detected. ◆ If caller ID is not detectable or Caller ID Detect (next field) is disabled, phone set shows nothing.	Disable
Caller ID Detect	Control	Selection of Caller ID function. If Default Caller ID (above field) should be used, then disable this function. Bellcore : Detect caller ID with Bellcore FSK standard No : Don't detect	No
Voice	Input Gain	Voice volume control of input call	0
	Output Gain	Voice volume control of output call	0
	Silence Suppression	Silent control for voice packet Enable: If silent happens in conversation, voice packet is not send (save bandwidth) Disable: Keep sending packet even silent happens	Enable
Trunk Class	ID	Configure Trunk Class of this FXO port	0
FXO Loop Error Counter	Control	Total error count of FXO port Clear: clear the counter number	0
Statistics	Reset	To reset the counter, tick Reset and click Apply button.	
	Refresh	Refresh Statistics counter	
	Counter Type	Call Attempt : Volume of calls Outgoing Call OK : Successful Outgoing Call Incoming Call : Incoming Call Attempt Incoming Call OK : Successful Incoming Call Busy(sec) : Total using time of this port RcvDigit : Show the current incoming number of this port	
	Value	Shows the value of statistics counter	0

2.1.4 SIP Line Channel Setting

SIP Line Information		SIP Device	
Channel:	<u>17</u>	User Name:	141
Extension Suffix:	27	Caller ID Alias:	
Admin. State:	Enable	Outbound Transit Control	
Operation State:	Enable	Privilege:	International
Do Not Disturb:	Disable	Join Operator Group	
Call Forward		Yes/No:	Yes
Control:	Disable	My Pick Up Group	
Forward To:		Group ID:	2
Offnet To:		Picked up By Others	
Soft Key:	Apply to All	Control:	Yes
Soft Key String:		SIP Information	
Trigger Mode:	Key Press	2833 Status:	Yes
Trigger Digits:		Join Entity: (Restart)	1
Append Trigger Digit:	Not Append	FXO Busy Tone Detect	
Barring Class		Control:	Disable
ID:	0	Phone Set Password	
Outgoing Time Restriction		Control:	Clear (no password)
Control:	No	Voice Gain Tuning	
Call Transfer		FXO:(Output/Input)	0 dB/ 0 dB
Control:	Enable	FXS:(Output/Input)	0 dB/ 0 dB
Statistics Reset Refresh			
Counter Type	Value	Counter Type	Value
Call Attempt:	137	Outgoing Call OK:	60
Incoming Call:	47	Incoming Call OK:	25
Busy (sec):	3265	RcvDigit:	

Type	Field	Description	Default Value
SIP Line Information	Channel	Channel Number (Read Only)	
	Extension Number	Suffix number of this extension.	
	Admin. State	Control the active status of this port Enable : Enable this port Disable : Disable this port	Enable
	Operator State	The action status of this port (Read Only)	Enable

Type	Field	Description	Default Value
	Do Not Disturb	DND function Disable: Disable DND function (accept incoming and outgoing call) Enable: Enable DND (accept outgoing call only and incoming call is denied)	Disable
Call Forward	Control	Configure Forward status of this port Disable: Don't forward calls All Calls: All call is forwarded Busy: Call is forwarded when line is busy. Forward 1 time only Busy (Cascade): Call is forwarded when line is busy, Forward max 16 times No Answer: Call is forwarded when no one answer the phone till timeout (time of "No answer, send greeting" minus 5 seconds) Busy/No Answer: Call is forwarded when line busy or no answer till timeout (time of "No answer, send greeting" minus 5 seconds)	Disable
	Forward To	Destination Phone number that will be forwarded to. It can be full phone number or extension number	
	Offnet To	Destination Outgoing (PSTN) Phone number that will be forwarded to via other machine. If special character is used, such as PP1035, means when the call is answered (such as PBX), it dials 1035.	
Soft Key	Apply to All (button) (for V3.04 or later only)	When the Soft Key configuration of all SIP Line channels are the same, administrator can configure the soft key of any SIP Line channels and click this button to apply this configuration to all SIP Line channels. Note: All other soft key setting is overwritten if this button is used.	
	Soft Key String	Define the characters string of softkey. When the softkey is triggered (works with trigger mode), the string of softkey will be dialed. The maximum length of string is 22 digits.	
	Trigger Mode	Choose the Trigger mode to trigger the softkey : Key Press : If the digits dialed matches with any one of the digits defined in Trigger Digits, the softkey is triggered and the number defined in softkey string will be dialed. Auto : For FXS and SIP Line, it is triggered when phone-set in hook off status. For FXO and SIP Trunk, it is triggered when line is ringing.	Key Press

Type	Field	Description	Default Value
	Trigger Digits	Define the trigger digits to trigger the softkey e.g. define trigger digits as 123. softkey will be triggered if 1 or 2 or 3 is dialed.	
	Append Trigger Digit	Define if the trigger digit will be appended to the softkey sting as the last digit when dial out Not Append : Not appended Trigger Digits Append : Trigger digit is appended.	Not Append
Barring Class	ID	Which barring class this port uses. It can be 0~6 and 0 means no barring. For barring class, please refer to configuration of "4.3.Barring Class"	0
Outgoing Time Restriction	Control	Restrict call duration from this SIP Line port to outgoing trunk call. (Yes/No). Please refer to 4.4.Telephony Tuning to adjust the duration time of this function	No
Call Transfer	Control	Enable/Disable Call Transfer function. It can be used for extension at hotel room or the environment that call transfer is not allowed When this control is Disabled, press ##, #* or Flash key in conversation mode is invalid. It doesn't activate Call Transfer / Call Park, however, call pick up is still available. Enable / Disable	Enable
User Name	Name	Define user name of this extension, this user name is for SIP client to register to this machine	
	Caller ID Alias	Each extension can configure a set of Alias caller ID. When user make call with this extension, this Alias caller ID is sent to called side. The MOSA 4600 Plus at called side compares it with the extension number table (Web Folder: 1.System Config.\1.3.Extension Number). If it matches, called side phone set shows extension number at table, otherwise, it shows this Alias as caller ID There are different kinds of Caller ID resource. For the result of shown caller ID, please refer to the mapping table (Note**1) behind this main table	(Blank)

Type	Field	Description	Default Value
Outbound Transit Control	Privilege	Define the privilege for Outbound Transit call Disable : Outbound Transit call is not allowed Local : Outbound Transit call to local call only Toll : Outbound Transit call to mobile phone and Toll call International : Outbound Transit call to international call The local call, toll call, or international call is judged from the location of the country code and area code defined in this gateway.	International
Join Operator Group	Yes/No	Define whether to join into Operator Group or not. Yes : join into Operator Group to behave as Operator No : Not join	Yes
My Pick up Group	Group ID	Configure which pick up group of this port	2
Pickupped By Others	Control	Define whether the call will be picked up by others Yes : Allowed to be picked up No : Not allowed to be picked up	Yes
SIP Information	2833 Status	Shows the 2833 Status the port uses Yes : Use RFC2833 to send DTMF No : Don't Use RFC2833 to send DTMF	No
	Join Entity	Select the entity to join, can be 1~12 or N/A 1~12: Select the entity to join N/A: Disable this port	1
FXO Busy Tone Detect	Control	Activate the detection for the incoming trunk call that forward/transfer to this FXS channel. For special application only. When it is enabled, it might be possible that incoming call is disconnected accidentally, owing to misjudgment of this feature with the interference from PBX, manual DTMF that dial from user or other noise.	Disable
Phone Set Password	Control	Clear: Click this button to clear the password of this extension	
Voice Gain Tuning	FXO:(Output/Input)	Output/Input gain adjustment to destination FXO port ※The volume of listening and speaking of Softphone / IP Phone itself can be adjusted by the IP Phone and Softphone itself.	Output: 0 dB/ Input: 0 dB
	FXS:(Output/Input)	Output/Input gain adjustment to destination FXS port ※The volume of listening and speaking of Softphone / IP Phone itself can be adjusted by the IP Phone and Softphone itself.	Output: 0 dB/ Input: 0 dB

Type	Field	Description	Default Value
Statistics	Reset	To reset the counter, tick Reset and click Apply button.	
	Refresh	Refresh Statistics counter	
	Counter Type	Call Attempt : Volume of calls Outgoing Call OK : Successful Outgoing Call Incoming Call : Incoming Call Attempt Incoming Call OK : Successful Incoming Call Busy(sec) : Total using time of this port RcvDigit : Show the current incoming number of this port	
	Value	Shows the value of statistics counter	0

(Note**1)

Alias (Note*1)	Group Number (Note*2)	My Phone Number, VODNET (Note*3)	Incoming Caller ID matches Ext. Table (Note*4)	Caller ID that shown on user's phone set
Y	Y	Yes	Yes	Ext. Table No. at called side MOSA
			No	Alias
Y	N	Yes	Yes	Ext. Table No. at called side MOSA
			No	Alias
N	Y	Yes	Yes	Ext. Table No. at called side MOSA
			No	Group Number
N	N	Yes	Yes	Ext. Table No. at called side MOSA
			No	Phone No. + Suffix of calling side

(Note*1) In web folder: 2.Channel Config.\2.1.Summary at the configuration of individual FXS and SIP Line

User Name	
Name:	Ext11
Caller ID Alias:	

(Note*2) In web folder: 1.System Config.\1.3.Extension Number

PBX Group	
Group Number:	

(Note*3): In web folder: 1.System Config.\1.1.Basic Information

My Phone Number	
Country Code:	86
Area Code:	21
Phone Number:	72235511
My ID	
VODNET ID:	28 - 6 - 200 : 4341 Get (-OK-)
Netmosa ID:	

(Note*4): In web folder: 1.System Config.\1.3.Extension Number

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Prefix/Ext. No.	Phone Number	Type	Delete
10	0	iPBX	Delete

	Prefix/Ext. No.	Phone Number	Type
Add/Modify:			Phone v

2.1.5 SIP Trunk Channel Setting

SIP Trunk Information		Description	
Channel:	<u>191</u>		
Admin. State:	Enable	Default Caller ID:	None
Operation State:	Enable	Trunk Class	
Call Forward		ID:	12
Control:	Disable	SIP Information	
Forward To:(Ext. No.)	78111	Outgoing Only:	Disable
Offnet To:		2833 Status:	Yes
Soft Key	Apply to All	Join Entity:(Restart)	13
Soft Key String:		SIP Message:	Standard
Trigger Mode:	Key Press		
Trigger Digits:			
Append Trigger Digit:	Not Append		
Statistics		Reset	Refresh
Counter Type	Value	Counter Type	Value
Call Attempt:	33	Outgoing Call OK:	33
Incoming Call:	42	Incoming Call OK:	42
Busy (sec):	1983	RcvDigit:#	

Type	Field	Description	Default Value
Analog Line Information	Channel	Channel number (Read Only)	
	Admin. State	Control the active status of this port Enable : Enable this port Disable : Disable this port	Enable
	Operator State	The action status of this port (Read Only)	Enable
Call Forward	Control	Configure Forward status of this port ◆ Disable: Don't forward calls ◆ All Calls: All call is forwarded ◆ Private Line: All call with private line function ◆ Private Line-2: The same function as Private Line, furthermore, the extension number at Offnet Forward field also can seize this trunk port. ◆ Day/Night: Incoming trunk call can be forwarded to different destination according to day/night mode of DISA.	Disable
	Forward To	Destination Phone number that will be forwarded to. It can be full phone number or extension number	
	Offnet To	Destination Outgoing (PSTN) Phone number that will be forwarded to via other machine.	
Soft Key	Apply to All (button) (for V3.04 or later only)	When the Soft Key configuration of all SIP Trunk channels are the same, administrator can configure the soft key of any SIP Trunk channels and click this button to apply this configuration to all SIP Trunk channels. Note: All other soft key setting is overwritten if this button is used.	
	Soft Key String	Define the characters string of softkey. When the softkey is triggered (works with trigger mode), the string of softkey will be dialed. The maximum length of string is 22 digits.	
	Trigger Mode	Choose the Trigger mode to trigger the softkey : ■ Key Press : If the digits dialed matches with any one of the digits defined in Trigger Digits, the softkey is triggered and the number defined in softkey string will be dialed. ■ Auto : For FXS, it is triggered when phone-set in hook off status. For FXO, it is triggered when line is ringing.	Key Press
	Trigger Digits	Define the trigger digits to trigger the softkey e.g. define trigger digits as 123. softkey will be triggered if 1 or 2 or 3 is dialed.	
	Append Trigger Digit	Define if the trigger digit will be appended to the softkey sting as the last digit when dial out ■ Not Append : Not appended Trigger Digits ■ Append : Trigger digit is appended.	Not Append
Description		Write note for this port. If Default Caller ID below is used, input digits only here	

Type	Field	Description	Default Value
	Default Caller ID	Enable ◆ If incoming caller ID is detectable, Phone set shows the caller ID detected. If caller ID is not detectable, phone set shows digits in Description field. Disable: ◆ If incoming caller ID is detectable, Phone set shows the caller ID detected, otherwise, shows nothing.	Disable
Trunk Class	ID	Configure Trunk Class of this port	12
SIP Information	Outgoing Only	Shows if the port is for Outgoing call only Disable : Able to make outgoing call and accept incoming call Enable : Able to make outgoing call, but deny incoming call	Disable
	2833 Status	Shows the 2833 Status the port uses Yes : Use RFC2833 to send DTMF No : Don't Use RFC2833 to send DTMF	No
	Join Entity	Select the entity to join, can be 13~36 or N/A 13~36: Select the entity to join	13
	SIP Message	Select contents of SIP packet message Standard : Typical, suggested selection Light : compact packet	Standard
Statistics	Reset	To reset the counter, tick Reset and click Apply button.	
	Refresh	Refresh Statistics counter	
	Counter Type	Call Attempt : Volume of calls Outgoing Call OK : Successful Outgoing Call Incoming Call : Incoming Call Attempt Incoming Call OK : Successful Incoming Call Busy(sec) : Total using time of this port RcvDigit : Show the current incoming number of this port	
	Value	Shows the value of statistics counter	0

2.2.Status

Idle Conversation In Use Off Line Pool Disable			
Refresh			
Analog Channel			
1	2	3*	4*
SIP Line			
5	6	7	8
SIP Trunk			
173	174	175	176

Type	Field	Description	Default Value
Channel Status	Idle	Port is available	
	Conversation	Port is under conversation (when it is considered as successful IP call by this machine)	
	In Use	Port is in use	
	Off line (For SIP Line Use Only)	SIP Line port has not yet registered from SIP device.	
	Pool (For SIP Line Use Only)	SIP Line port that is specified as pool port that is shared for all SIP Line user.	
	Disable	Port is disabled	

3.1.SIP Line Mapping

(Need Warm-Restart)

SIP Line Entity

Entity:

Entity Control:

Public Address Setting

Address:

Channel Member of This Entity

17	18	19	20
*	*	*	*

SIP Line User Account

Username

Password

Confirm Password

Add/Modify:

Delete:

Entry List:

Entity	Username	password
--------	----------	----------

Type	Field	Description	Default Value
SIP Line Entity	Entity	Select the SIP group (entity) you want to configure, 1~12 is available	1
	Entity Control	SIP group status Enable : The entity above is enabled Disable : The entity above is disabled	Enable
Public Address Setting	Address	The Public Address of the SIP Server. Don't modify it is suggested	1234567
Channel Member of This Entity		Shows all channel numbers that join this Entity.	
SIP Line User Account	Add./Modify	Create/Modify the account and password of SIP extension 1. Username: user account name, it should be the same as the Username of SIP Line 2. Password : password of this account 3. Confirm Password: : Input the same password to confirm	
	Delete Entry	Delete user account Username : Input user name to delete	

Type	Field	Description	Default Value
	Entity List	Shows the account information that has been input. (Read Only) Entity : Show SIP entity number Username : Show username of this account password: Password of this account (shows *****)	

3.2. Registered SIP Line

(Need Warm-Restart)

ApplyCancel

NAT Traversal

Control: ON

Register Expiration

Time Interval (300~86400 sec.): 300 sec.

Carry GMT

Control: OFF

Registered List

Current No (Public Address): 0

Current No (Contact Address): 0

Contacts List:

Error Log...Page 1 / 1Show<<>>

User	Contact URL	Expires (sec)	Control
------	-------------	---------------	---------

Type	Field	Description	Default Value
NAT Traversal	Control	Whether or not to send Option Packet to NAT device to avoid line disconnection. ON/OFF	ON
Register Expiration	Time Interval (300~86400 sec)	When the SIP device that register to this machine fail to response any packets for a period of time configured here, this machine disconnect the connection. (Min. 300 sec.)	300
Carry GMT	Control	Provide GMT to SIP devices when they do registration. The function sync all time of devices	OFF
Registered List	Current No (Public Address):	Shows the volume of registered SIP devices. (Counted by Public Address)	(Read Only) 0
	Current No (Contact Address):	Shows the volume of registered SIP devices. (Counted by Contact Address)	(Read Only) 0
	Contacts List:	Lists the registered SIP device. It contains User: SIP phone number Contact URL: Public Address used by SIP device Expires (sec): Time-out duration Control: DeRegister button. Click this button to suspend registration of that SIP device.	(Read Only)

Error Log...

Protocol Error		Clear
MSG:		
Error Log List		
Page 1 / 1		Show << >>
Contact Address	Error Reason	Time
Contact Address:		Search
Clear Log Buff:	Clear	

Type	Field	Description	Default Value
Protocol Error	MSG	Error message of SIP protocol	
Error Log List	Contact Address	Shows the Contact Address of this Log	(Read only)
	Error Reason	Shows the possible error reason in Log. It can be ■ No channel assigned! No SIP Line channel with the same user name is assigned ■ Account/Password Error! Password is not correct or correct account info is not exist in Inbound authentication	(Read only)
	Time	Time of Log created time	(Read only)
	Contact Address Search	Input Contact Address to search Error Log	
	Clear Log Buff	Click Clear button to clear all Error Log	

3.3.Proxy/Trunk Mapping

(Need Warm-Restart)

Apply

Cancel

Outbound Proxy Setting

Domain Name: Disable

Port:

Registrar Setting

Domain Name (IP:Port): : Disable

Register Expiration

Time Interval (30~86400 sec.): sec.

RTP Tracking

Control:

Incoming Call Screening

Accept Calls From Proxy Only:

Soft Switch Type

Type:

Calling Number Selection

Type:

SIP Trunk Entity

Entity:

Entity Control:

Register Status:

Public Address Setting

Address:

Default Account

User name:

Password:

Confirm Password:

Contact Address Information

Current Address:

Forward To

Forward Address:

Type:

Channel Member of This Entity

173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Type	Field	Description	Default Value
Outbound Proxy Setting	Domain Name	Input Domain name or IP address of SIP Proxy Server, and also Enable/Disable it.	Disable
	Port	Input control port number of SIP Proxy Server	5060
Registrar Setting	Domain Name(IP:Port)	Input Domain name or IP address of SIP Registrar Server, its Control Port and also Enable/Disable it.	Disable
Register Expiration	Time Interval(30~86400 sec)	When this machine is configured as Client Mode, it registers to SIP Proxy before timeout value configured here repeatedly. It keeps the registration status with SIP Proxy, because SIP Proxy may terminate connection when this machine is idle.	3600
RTP Tracking	Control	Send RTP packet to destination under the condition here SDP : Retrieve destination info from incoming packet Symmetric RTP : From IP/Port of original destination.	SDP
Incoming Call Screening	Accept Calls From Proxy Only	No: Accept all incoming SIP call Yes: This machine only accepts incoming call through SIP Proxy.	No
Soft Switch Type	Type	Select the type of Soft Switch Select the Soft Switch type that this machine will register to ■ General : Register to general ITSP or Soft Switch ■ NORTEL : Register to NORTEL Soft Switch	General
Calling Number Selection	Type	Select the Caller ID source for SIP trunk outbound call SIP Address: Send the SIP address account number as caller ID Originating Number: Send Caller ID from original source For this function that actual Caller ID is sent, please refer to the Note**1 below the table	SIP Address
SIP Trunk Entity	Entity	Select the SIP Entity you want to configure. 13~36 is available.	13
	Entity Control	Control the status of this SIP Entity Disable : Disable this SIP Entity Enable : Enable this SIP Entity	Disable

Type	Field	Description	Default Value
	Register Status	Shows the registration status ■ Registered : Registration is successful ■ Registering : Trying to register ■ Fail : Registration is failed ■ Idle : Means SIP trunk is disabled Register (button) : Click to do manual registration De-Register (button) : Click to quit registration manually.	
Public Address Setting	Address	Input "SIP Entity number@Proxy Server". Please apply this number from ITSP	
	Default Account	The information to register SIP Proxy Username: Account for registration Password: Password to verify the account Confirm Password: Double confirm password	
Current Address Information	Current Address	Show the contract address currently (Read Only) uses	
Forward To	Forward Address	Enter a complete SIP account (Public Address: SIP number@SIP Proxy, such as 234@10.13.6.21). When SIP user makes call to this SIP Entity, the call is forward to new SIP Entity configured here, such as other MOSA 3700 or SIP Phone.	
	Type	None: Disable Forward To function All: All incoming calls are forward. Busy: forward calls when this Entity is busy. No Answer: Call is forwarded when no one answer the phone for a period of time.	Disable
SIP Entity of This Entity		Show " * " means this channel had joined this SIP Entity.	

Note**1

Trunk-IP-Trunk call

Call side / Original Caller ID		SIP Trunk Outgoing Caller ID		
		The same Country Code, Area code as Call Side	The same Country Code as Call Side	Country Code is different from Call Side
FXO	PSTN Caller ID	PSTN Caller ID	Long distance access code+ PSTN Caller ID	International access+ Call side Country Code+ Area Code+ PSTN Caller ID
	Default Caller ID (Note*1)	Default Caller ID (Note*1)	Default Caller ID (Note*1)	Default Caller ID (Note*1)

	MY Phone number (Note#1)	MY Phone number (Note#1)	Long distance access code+ MY Phone number (Note#1)	International access+ Call side full phone number
SIP Trunk	SIP Caller ID	SIP Caller ID	Long distance access code+ SIP Caller ID	International access+ Call side SIP Trunk Country Code+ Area Code+ SIP Caller ID
	Default Caller ID (Note*1)	Default Caller ID (Note*1)	Default Caller ID (Note*1)	Default Caller ID (Note*1)

(Note*1): Default Caller ID can be configured in 2.1.Summary at individual trunk channel (includes FXO and SIP Trunk). The behavior of this function is shown below

Description	
Default Caller ID:	None
Caller ID Detect	
Control:	No

Description		Write note for this port. If Default Caller ID below is used, input digits only here	
	Default Caller ID	Enable ◆ If Caller ID Detect (next field) is disabled, administrator can input digits at the field above to replace the digits that is sent to phone set. ◆ If Caller ID Detect (next field) is enabled (Bellcore), and incoming caller ID is detectable, Phone set shows the caller ID detected. If caller ID is not detectable, phone set shows digits in Description field. Disable: ◆ If Caller ID Detect (next field) is enabled (Bellcore), and incoming caller ID is detectable, Phone set shows the caller ID detected. If caller ID is not detectable or Caller ID Detect (next field) is disabled, phone set shows nothing.	Disable
Caller ID Detect	Control	Selection of Caller ID function. If Default Caller ID (above field) should be used, then disable this function. Bellcore : Detect caller ID with Bellcore FSK standard No : Don't detect	No

(Note#1): My Phone Number is the full number of the MOSA box. It is located at

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

My Phone Number	
Country Code:	86
Area Code:	21
Phone Number:	72235511

3.4.SIP Trunk Numbering

Setting		
Country Code:		
Area Code:		
Add/Remove Digits		
Call Type	Remove Leading N Digit(s)	Add Leading Digit String
International Call	0 v	
Long Distance Call	0 v	
Local Call	0 v	

[Simulator](#)

Add DOD Call Caller Leading Digit(s)	
Digit(s):	
Remove DID Call Callee Leading Digit(s)	
Digit(s)	
Digit(s)	
Digit(s)	
Digit(s)	
Digit(s)	
Digit(s)	

Type	Field	Description	Default Value
Setting	Country Code	Country Code of ITSP	Blank
	Area Code	Area code of SIP Telecom service of the ITSP country above	Blank
Add/Remove Digits	Call Type	The prefix type that add or subtract International Call Long Distance Call Local Call	
	Remove Leading N Digit(s)	Remove the first N digits of access code (prefix) of the types below. It can be 0 (default) to 10 International Call Long Distance Call Local Call	0
	Add Leading Digit String	After N digits is removed (described at paragraph above), add access code (prefix) digits of the types below. It can be the digits string from 1~9. International Call Long Distance Call Local Call	Blank
	Simulator	Test the real number dial that is simulated from the add/subtract rule of this system. It has to use full number to simulate, including Country Code + Area Code + Local phone number.	
Add DOD Call Caller Leading Digit(s) (for V3.04 or later only)	Digit(s):	When outbound call and offnet forward call happens, the system sends caller ID with the digits here ahead of original caller ID.	
Remove DID Call Callee Leading Digit(s) (for V3.04 or later only)	Digit(s):	For Incoming call from SIP trunk, system compares the digits here with the prefix number that user dial. If it matches, system removes the prefix and compares it to Extension table and forward to extension directly if it exists.	

Simulator

Simulator

Trunk Type: Analog ▼ Apply

Dial In Full Phone Number:

Dial Out Phone Number:

(1):International (2):LongDistance (3):Local

Type	Field	Description	Default Value
Simulator	Trunk Type	Select the Trunk Type. There are Analog and SIP trunk. Please select SIP and click Apply	
	Dial In Full Phone Number	Input the full destination number (including Country Code + Area Code + Local phone number and International Access Code is excluded) for simulation. (EX : 8675512345678)	Blank
	Dial Out Phone Number	The real number dials from the system. The suffix (1), (2), (3) means the call types below.	
	(1):International (2):LongDistance (3):Local	The call type that is judged by the system. There are: (1):International (2): Long Distance (3): Local	

3.5.Common

(Need Warm-Restart)

Apply

Cancel

SIP Message Port Setting

Port: 5060

Check Alive

Disconnect if Silence: Yes

SIP OPTION Message: Disable

DTMF

Type: RFC2833

RFC2833 Pay Load Type Value

Value (96~101): 101

SIP Message Header Form

Header Form: Standard

RTCP

Control: Disable

Codecs Selection

Codec Type	G.729AB	G.723.1	PCMU	PCMA
Selected	☒	☒	☒	☒

Codec Priority: PCMU - PCMA - G729 - G723

Type	Field	Description	Default
SIP Message Port Setting	Port	Input SIP message port number	5060
Check Alive	Disconnect if Silence	Check RTP packet to insure the connection status. System check RTP packet every 3 minutes. If no RTP packet is found, disconnect connection to release line	Yes
	SIP OPTION Message	To confirm connection with SIP OPTION Message. The called SIP device or SIP Proxy Server also have to support this function	Disable
DTMF	Type	Specification to send DTMF RFC2833: Send DTMF by RFC2833, The called side SIP device or SIP Proxy server also have to support this standard INFO: Embedded DTMF inside SIP packet. The called side SIP device or SIP Proxy server also have to support this standard	RFC2833
RFC2833 Pay Load Type Value	Value	For RFC2833 Pay Load Type Value of some ITSP or Soft Switch, it has to be special value to be able to accept and send DTMF. Please contact with the ITSP for this RFC2833 Pay Load Type Value of Soft Switch that this machine will register to. Keep it intact as 101 if SIP Trunk is not used.	
SIP Message Header From	Header Form	Standard : Use standard SIP packet format Compact: Use compact SIP packet that save bandwidth. The called side SIP device or SIP Proxy server also have to support this standard, otherwise, call can not be built.	Standard
RTCP	Control	For some SIP devices, it requires to send RTCP packet at both sides for conversation. This setting enables this function. When it is enabled, this box sends RTCP to other SIP devices when SIP Line/Trunk is used. Enable / Disable	Disable
Codecs Selection	Codec Type	G.729AB: Mark the selection to Enable this Codec	✓
		G.723.1: Mark the selection to Enable this Codec	✓
		PCMU: Mark the selection to Enable this Codec (G.711 u Law)	✓
		PCMA: Mark the selection to Enable this Codec (G.711 A Law)	✓

Type	Field	Description	Default
Codec Priority		You can select the codec priority for your requirement. Not selected items at the table above will not be used.	G729-G723-PCMU-PCMA

4.1.Trunk Access Code

		Apply	Cancel
International Access Code			
Outgoing Call Carrier Selection			
Access Code:	002		
All the Access Codes Could Be Dialed			
Maximum:	10		
Entered:	6		
Access Code List:	002 , 019 , 005 , 006 , 007 , 009		
Add Entries:			
Delete Entries:			
Long Distance Access Code			
Outgoing Call Carrier Selection			
Access Code:	0		
All the Access Codes Could Be Dialed			
Maximum:	10		
Entered:	1		
Access Code List:	0		
Add Entries:			
Delete Entries:			
Office Code Exception			
Maximum:	5		
Entered:	0		
Exception List:			
Add Entries:			
Delete Entries:			
Local Call Exception			
Maximum:	10		
Entered:	0		
Exception List:			
Add Entries:			
Delete Entries:			
Toll Call Exception			
Maximum:	10		
Entered:	0		
Exception List:			
Add Entries:			
Delete Entries:			
Leading Digits of Local Calls			
Append:	None		
PBX CO Line Access (behind PBX only)			
Access Code:			
PBX Auto Attendant (behind PBX only)			
Control:	Disable		
Extension Digits:	1		

Type	Field	Description	Default
International Access Code	Outgoing Call Carrier Selection Access Code	Code for an international call dialed from system, and only one code can be entered	
	All The Access Codes Could Be Dialed	System has to know all possible access code for making an international call, in order to check if the call is an international call. In some countries there are several access codes for making international call. All those access codes have to be entered, in case some access code can not be recognized. e.g. in Taiwan, 002/005/006/009/012/019 are the access code for international call.	
	Maximum	The maximum number of the access code for international call (Read Only)	10
	Entered	The number of the access code had been entered (Read Only)	
	Access Code List	Display the list of possible access code entered for international call (Read Only)	
	Add Entries	Add the possible access code, four entries can be entered in one time	
	Delete Entries	Delete the access code from the list, four entries can be entered in one time	
Long Distance Access Code	Outgoing Call Carrier Selection Access Code	Code for a long distance call dialed from system, and only one code can be entered.	
	All the Access Codes Could Be Dialed	System has to know all possible access code for making a toll call, in order to check if the call is a toll call. In some countries there are several access codes for making toll call. All those access codes have to be entered, in case some access code can not be recognized. e.g. in Taiwan 0/1805/1806/1807 are the access code for toll call.	
	Maximum	The maximum number of the access code for toll call (Read Only)	10
	Entered	The number of the access code had been entered (Read Only)	
	Access Code List	Display the list of possible access code entered for toll call (Read Only)	
	Add Entries	Add the possible access code, four entries can be entered in one time	
	Delete Entries	Delete the access code from the list, four entries can be entered in one time	

Type	Field	Description	Default
Office Code Exception	In some countries, the conflict exists in the numbering of Area Code. For instance, Area Code 4 is assigned to area-A, and 47 is assigned to area-B with the same starting digit. Therefore when a call is from area-A to area-B, the dial number will be the access code for toll call “0”, then Area Code “47” and phone number. Those kinds of conflict make MOSA 4600 confused. In such cases, any exceptions must be stored in the system to avoid from any misunderstanding. For instance, MOSA 4600 is installed in area-A with Area code 4, then any Area Codes starting with 4 (47 for area-B, 49 for area-C..) but different areas to area-A are exceptions. All exceptions must be known by system.		
	Maximum	Maximum exceptions about Area Code can be entered	5
	Entered	The number of exception had been entered	0
	Exception List	Display the list of exceptions entered (Display only)	
	Add Entries	Add the exceptional Access Code, four entries can be entered in one time	
	Delete Entries	Delete the exceptional Access Code from the list, four entries can be entered in one time	
Local Call Exception	In some countries, the phone number of the mobile phone is similar to the number of local call. Like a local call, no access code is required when you dial a mobile call, but the tariff is based on the toll call. For instance in China, the phone number of the mobile phone is starting with 13. Just dial 13xxxx directly without any access code such like “0” to make a mobile call. Normally MOSA 4600 will treat this kind of call as a local call, but actually the tariff should be a toll call. User should define such kind of phone number in Local Call Exception let system knows that those numbers are exceptions to the local call. e.g. define 13 in Local Call Exception, that means phone number starting with 13 is not a local call but a toll call		
	Maximum	Maximum exceptions can be entered (Display only)	10
	Entered	The number of exception had been (Display only)	0
	Exception List	Display the list of exceptions entered (Display only)	
	Add Entries	Add the exceptional Code, four entries can be entered in one time	
	Delete Entries	Delete the exceptional Code from the list, four entries can be entered in one time	
Toll Code Exception	In some countries, several area codes are applied in a big range. The calls between different area codes are treated as local calls; no access code for toll is required; the tariff is also based on the local call. Those area codes must be entered in Toll Code Exception otherwise this machine will treat those calls as toll call and also add long distance access code as prefix		
	Maximum	Maximum exceptions can be entered	10
	Entered	The number of exception had been entered	0

Type	Field	Description	Default
	Exception List	Display the list of exceptions entered	
	Add Entries	Add the exceptional Code, four entries can be entered in one time	
	Delete Entries	Delete the exceptional Code from the list, four entries can be entered in one time	
Leading Digits of Local Calls	Append	In some areas, the area code is the must code even it is a local call. Or in some areas, the access code for toll and the area code is required whatever it is a local call or toll call. Define here for special control. None : Disable Area Code : the Area Code is always the leading digit when dialing Access Code + Area Code : the Access code and Area Code is always the leading digit when dialing	None
PBX CO Line Access (<i>behind PBX only</i>)	Access Code	If FXO port of this machine is connected to an extension line of a PBX, this field must be defined. When this machine is handling an outbound transit call from other MOSA machine, this codes will be sent out by this machine automatically to seize a public line of PBX and do outbound transit call without changing the dialing manner. Attention : If the FXO is seized by remote access, the dial tone heard at the remote side is sent from this machine. It does not penetrate PBX and hear dial tone from public line.	
PBX Auto Attendant (<i>behind PBX only</i>)	Control	If the FXS of MOSA 4600 is connected to the trunk card port of PBX for public line, a remote user may make an IP call by dialing to this machine number + the extension line number of the PBX. MOSA 4600 will send out the extension number to PBX after PBX auto attendant answers if this field is set to "Enable". Enable : Yes, and define extension digits Disable : No Note: This machine does not send ring back tone if it is enabled	Disable
	Extension Digits	The length of the extension number of PBX. Configure the length to the same as the extension length of PBX	1

4.2.Abbr. Dial

Abbr. dial Configuration

Total Entries: 100

Entry List:

Page / 5

Index	Abbr. Dial Number
00	-
01	-
02	-
03	-
04	-
05	-
06	-
07	-
08	-
09	-
10	-
11	-
12	-
13	-
14	-
15	-
16	-
17	-
18	-
19	-

Index
Abbr. Dial Number

Add/Modify:

Type	Field	Description	Default
Abbr. Dial Configuration	Total Entries	Total entries can be configured	100
	Entry List	Entry list for Abbr. Dial, 20 entries per page, consists : Page : Enter the page number to be displayed, page number from 1 to 5 Index : Display Abbr. Dial Index Abbr. Dial Number : Display the actual number to be dialed to make a call	
	Add/Modify	Configure the content of Abbr. Dial : Index : Enter the index to be configured Abbr. Dial Number : Enter the digits to be dialed , maximum 27 digits	

4.3.Barring Class

Barring Class Configuration				
(summary)	Analog Trunk		SIP Trunk	
Class:	Class 1	Select	Class 1	Select
Name:				
Attribute:	N/A		N/A	
Barring Class Setting		Barring Class Setting		
Class Attribute:	Deny	New	Delete	
Class Name:		Add		
Barring:		Add	Delete	
Exception:		Add	Delete	
Barring List		Barring List		
Exception List		Exception List		

Group	Field	Description	Default Value
Class Information	Class	Selection of Barring Classes, Choice from 1 to 6	1. Local / 2.Toll / 3. International / 4. Blank / 5. Blank / 6. All (Only for box shipped after V2.01)
	Name	Display the name of barring class (Display Only)	Blank
	Attribute	Display the attribute of Barring Class (Display Only)	N/A

Class Control	Class Attribute	The attribute of the class, Deny or Accept. There are Barring Table and Except Table may be defined for each attribute. Only one attribute can apply to one barring class, can be Deny or Accept DENY: (Positive list, configure prefix number for phone call allowed only) All numbers are denied except the numbers listed in the Exception List. When DENY is selected, it is not necessary to define Barring List, because DENY is to reject all numbers. ACCEPT: (Negative list, configure prefix number that is not allowed for phone call) Accept all numbers except number in the Barring List. The number in the Exception List are exceptions. New: When Attribute has not yet to apply to barring class (shown N/A), click New to add the Attribute to selected Barring Class Delete: Delete the Attribute to selected Barring Class. Delete the attribute of certain barring class will deactivate that barring class.	
	Class Name	Define a name for the selected Barring Class; any name less than 15 characters can be defined by the system Manager. Add: Add class name for Barring Class.	
	Barring	The phone number (less than 18 characters) that is limited to be dialed Add: Add phone number to Baring List for selected Barring Class Delete: Delete phone number from Barring List for selected Barring Class	
	Exception	The phone number (less than 18 characters) for exception Add: Add phone number to Exception List for selected Barring Class Delete: Delete phone number from Exception List for selected Barring Class	
	Barring List	Display all numbers to be barred (Display Only) that is related to the attribute	
	Exception List	Display all exception in Except (Display Only) Table that is related to the attribute	

Summary

Analog Trunk				
Class	Name	Attribute	Barring List	Exception List
1	-	N/A	-	-
2	-	N/A	-	-
3	-	N/A	-	-
4	-	N/A	-	-
5	-	N/A	-	-
6	-	N/A	-	-
routing	-	N/A	-	-
SIP Trunk				
Class	Name	Attribute	Barring List	Exception List
1	-	N/A	-	-
2	-	N/A	-	-
3	-	N/A	-	-
4	-	N/A	-	-
5	-	N/A	-	-
6	-	N/A	-	-
routing	-	N/A	-	-

Group	Field	Description	Default Value
Analog Trunk	Class	Shows the barring class	(Read Only)
	Name	Shows the name of barring class	(Read Only)
	Attribute	Shows the Attribute of class	(Read Only)
	Barring List	Shows the list of barring	(Read Only)
	Exception List	Shows the list of exception	(Read Only)
SIP Trunk	Class	Shows the barring class	(Read Only)
	Name	Shows the name of barring class	(Read Only)
	Attribute	Shows the Attribute of class	(Read Only)
	Barring List	Shows the list of barring	(Read Only)
	Exception List	Shows the list of exception	(Read Only)

4.4. Telephony Tuning

Flash Button	
Flash Time:	200 msec.
Send DTMF	
Duration:	100 msec.
Inter-digit Time:	100 msec.
Level:	-6 / -8 dBm
Guard Time	
Analog Trunk:	0.8 sec.
Dial Ending Time	
Time:	3 sec.
T.38 Fax Relay	
Max. Fax Rate:	14400 bps
Low Speed Redundancy:	3 Redundant packets
High Speed Redundancy:	1 Redundant packet
Voice Quality	
Jitter Buffer:	Auto
Caller ID Display	
Control:	Disable
Suffix Length (10~19):	10
Length of Transparent Mode:	0 digits
Caller ID Detection Sensitivity	
Detection Gain:	0 dB
Cascade Device	
VODNET ID/Phone Number:	
Night Service Agent of Direct Line	
VODNET ID/Phone Number:	
Secondary Service Agent of Direct Line	
VODNET ID/Phone Number:	
Default Call Forward	
VODNET ID/Phone Number:	
Host Info Sending Period	
Time (0~30):	0 sec.
Send Parking Info	
Control:	Disable
Busy Tone Detection Threshold	
Control:	-32 dBm
Transit Call	
Gain:	6 dB
Disconnect Warning Time (1~60):	3 minute(s)
Remote Hang Up Signal (Wink)	
Analog Line:	Disable
Analog Trunk:	Enable
Analog Trunk Incoming Delay Time	
Time (0~255):	0 sec.
Analog Trunk Busy Tone Delay Time	
Time (1~10):	10 sec.
Automatic Callback/Trunk Booking Ringing Time	
Time (10~50):	30 sec.
Trunk Outgoing Time Restriction	
Analog Trunk:	Enable
SIP Trunk:	Enable
Line Restriction Time	
Time (1~120):	5 minute(s).
DTMF Payout	
Control:	PlayOut
Smart Pad Connection	
Password Control:	Enable
Allow User Change SIP Authentication Password	
Control:	Enable
Busy Tone spec.	
Frequency (300~3000Hz):	f1:480 f2:620
Cadence (100~5000ms):	on:500 off:500
Reorder Tone spec.	
Frequency (300~3000Hz):	f1:480 f2:620
Cadence (100~5000ms):	on:250 off:250
Continuous Tone Detection	
Time:	N/A sec.

Type	Field	Description	Default
Flash Button	Flash Time	The time interval for “Flash” that system may accept	200 ms
Send DTMF	Duration	Duration time for DTMF transmit	100 ms
	Inter-digit Time	Inter-digit time between two DTMF	100 ms
	Level (for V3.04 or later only)	Select the DTMF volume level from -2/-4 ~ -16/-18 dBm	-6/-8dBm
Guard Time	Analog Trunk	The minimum time interval between two trunk calls	0.8 sec
Dial Ending Time	Dial Ending Time	Generally “ # ” is the last character of the number, and that means “end of dialing”. If no “ # ” is dialed, system will wait until dial ending time out.	3 sec
T.38 Fax Relay	Max. Fax Rate	Select the maximum FAX transmission rate 2400/4800/7200/9600/12000/14400	14400 bps
	Low Speed Redundancy	Select the number of low speed redundancy for frame transmission No Redundant Packet 1 Redundant Packet 2 Redundant Packet 3 Redundant Packet 4 Redundant Packet	3 Redundant Packets
	High Speed Redundancy	Select the number of high speed redundancy for frame transmission No Redundant Packet 1 Redundant Packet 2 Redundant Packet	1 Redundant Packet
Voice Quality	Jitter Buffer	Select the method to suppress voice vibration ■ Auto, the system detects it automatically. ■ Other selection from 20ms~460 ms	Auto
Caller ID Display	Control	If the caller ID display is enable. It is valid for the 2 conditions: 1. Call from FXS to FXS. 2. If both PSTN trunk and Phone-set supports Bellcore FSK standard, incoming call from FXO displays Caller ID call from FXS to FXS. The caller ID from FXO is not displayed Disable : Not display Enable : can be displayed	Disable
	Suffix Length(10~19)	Configure the length of Caller ID. It depends on the digits can be shown in your phone-set	10

Type	Field	Description	Default
	Length of Transparent Mode	When Trunk incoming call accepts caller ID length that is less than N digits, it sends the value of " Default Caller ID " (Web Folder: 2.1.Summary, configured at individual FXO and SIP trunk channel) to called side directly without change. When MOSA is integrated with traditional PBX, this feature let called side shows the extension number of calling side as caller ID Input length here (N digits)	0
Caller ID Detection Sensitivity	Detection Gain	When caller ID volume (gain) is too loud or too quiet and it is unable to be detected. The gain is adjustable.	0
Cascade Device	VODNET ID/ Gateway Phone Number	Configure other machine as backup operator. When operators at this machine are all busy, system seize the operator of the cascade device. It needs full number, Country Code + Area Code + Phone Number. It also can be VODNET ID.	
Night Service Agent of Direct Line	VODNET ID/Phone Number	Incoming trunk call at night mode can be forward to specified number. This function has to work with Day/Night mode of DISA and day/night settings of trunk port. Please refer to operation manual	
Secondary Service Agent of Direct Line	VODNET ID/Phone Number	Trunk incoming call at day mode. If ◆ DISA is disabled and manual operator is busy ◆ DISA is at day mode and the Forward To number is busy It forward to secondary backup destination. This function has to work with Day/Night mode of DISA and day/night settings of trunk port. Please refer to operation manual	
Default Call Forward	VODNET ID/Phone Number	Incoming call to all extensions can be forward to a certain device/extension and answered by certain personnel when they are busy or no answer. Precondition is that there is number here and no forward setting is configured at extension channel. Under this condition, incoming extension called is forwarded to the number defined here.	
Host Info Sending Period	Time	The period time of broadcasting box info to the LAN at the same subnet. Smart Pad Operator Console (software) or X-Agent (hardware) can receive these info for statistic or control	0
Send Parking Info	Control	Send Parking info for network management. Please keep it default. (Enable/Disable)	Disable

Type	Field	Description	Default
Busy Tone Detection Threshold	Control	When the busy tone detection of MOSA's analog FXO is enabled, if the busy tone from PSTN or PBX is too loud or quite that is unable to be detected, then the detection sensitivity is adjustable. Here is the lowest level that is detectable.	-32
Transit Call	Gain	Adjust the voice gain for Transit Call	6
	Disconnect Warning Time (1~60)	Time warning is sent to the caller for reminding when Transit Call from PSTN line to PSTN line is placed. User should dial any digits to extend conversation when this warning tone is heard. If any digits are not dialed, line is connected.	3
Remote Hang Up Signal	Analog Line	Configure FXS port to send Loop Open signal Enable : Enable this function Disable : Disable this function (This function has to work with machine that can detect Loop Open signal)	Enable
	Analog Trunk	Configure FXO port to detect Loop Open signal Enable : Enable this function Disable : Disable this function (When it is enabled and Loop Open signal is detected, FXO disconnect connection immediately.)	Enable
Analog Trunk Incoming Delay Time	Time	The delay answer function for FXO incoming call. For incoming call from FXO, The machine take action until the time configured here is timeout	0
Analog Trunk Busy Tone Delay Time	Time(1~10)	When user makes Transit Call or Offnet Forward call, user hears warning tone when Disconnect Warming Time of Transit Call is timeout. The value here is the line disconnected delay time when user had heard warning tone. Default value is 10 seconds and it also applies to line disconnected time when FXO had detected busy tone.	10
Automatic Callback/Trunk Booking Ringing Time	Time(10~50)	Configure the ringing duration when auto call back/trunk booking is acting.	30
Trunk Outgoing Time Restriction	Analog Trunk	Outgoing analog trunk call will be terminated when time is up. This function prevent long trunk call that has excessive PSTN charge.	Disable
	SIP Trunk	Outgoing SIP trunk call will be terminated when time is up. This function prevent long SIP trunk call that may has excessive charge.	Disable
Line Restriction Time	Time	When trunk call time restriction function is enable, line call to trunk will be terminated if it is configured for each individual channel with Restriction Time configured here.	0

Type	Field	Description	Default
DTMF Playout	Control	It suppresses normal or abnormal DTMF tone when it is not connected to Voice Mail machine or PBX trunk. It can reduce noise and user complaint. PlayOut: Send DTMF anyway Inhibit: Suppress DTMF Note: Please select PlayOut for application with second step dialing	PlayOut
Smart Pad Connection	Password Control	By default setting, configure extension password by phone set in advanced is required for Smart Pad and Smart Console to login this box. This feature let user input password when Smart Console/Pad login to the box at the first time. It save a procedure to configure password by phone set programming mode in advanced. Default is Disable, Smart Console/Pad can not use directly. Administrator should use this feature carefully to prevent others login any others' extension to make call by Smart Console/Pad. Enable/Disable	Disable
Allow User Change SIP Authentication Password (for V3.04 or later only)	Control	When it is enabled, SIP device user can login to this machine by default password. Later, user can change it any time by phone set without the configuration from administrator. Enable/Disable	Enabled
Busy Tone Spec	Frequency	Specification of the frequency of busy tone	(300 ~ 3000 Hz)
	Cadence	Specification of the cadence of busy tone, system will base this cadence to detect the FXO port	(100 ~ 5000 ms)
Reorder Tone Spec	Frequency	Specification of the frequency of reorder tone	(300 ~ 3000 Hz)
	Cadence	Specification of the cadence of reorder tone. system will base this cadence to detect the FXO port	(100 ~ 5000 ms)
Continuous Tone Detect	Time	For Transit call, beside detecting the busy tone, detect the Continuous Tone is also applied to see if the phone call is still alive 1~10 : The time (seconds) to detect continuous tone N/A : Don't detect Continuous Tone	N/A

4.5.Parking Server

(Need Warm-Restart)

Parking Server

Security Key: (0 ~ 999999999)

Parking Server Setting

Global IP/Port: / (0.0.0.0 / 0 , Use internal)

Private IP/Port: / (0.0.0.0 / 0 , Use internal)

Internal Call Park Parameters

Call Hold ID: (0 ~ 999999)

Park Timeout: (60 ~ 600 sec.)

Internal Call Park Status

Parking Capacity: 25

Current Parking Number: 0

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Park ID	Parking PhoneNo	Originator PhoneNo	Type	Seq No

Type	Field	Description	Default
Parking Server	Security Key	The Security Key to connect Parking Server. It needs to restart the system for the Security Key to take effect.	0
Parking Server Setting	Global IP Address	Configure Global IP address of Parking Server	0.0.0.0
	Port	Configure the Port number of that Global IP address for Parking Server	0
	Private IP Address	Configure Private IP Address of Parking Server	0.0.0.0
	Port	Configure the Port number of that Private IP address for Parking Server	0

- If internal Parking Server is used, Global IP/Port and Private IP/Port has to be 0.0.0.0/0
- If external Parking Server with Private IP is used, then Global and Private IP have to be used. If Global IP is used, then configure Global IP is enough

Type	Field	Description	Default
Internal Call Park Parameters	Call Hold ID	To activate Call Hold function, input Call Hold ID in this Field. This ID should be the same as the value in Extension map, also the same as the Call Hold ID dial from phone-set. If Call Hold ID is changed, It needs to restart the system for the machine to take effect.	0
	Park Timeout	Input time out value. When the time of parked call exceeds the time configured here and it still did not to be retrieved, then system ring the original extension that activates call park. If that extension is still busy, then it resumes to Parking Server. Warm Restart is required if Park Timeout value is changed.	60
Internal Call Park Status	Parking Capacity	The Capacity for all park call.	(Read Only) 25
	Current Parking Number	The number that is parked on this machine currently.	(Read Only) 0
	Park ID	The ID that is parked on this Server. This ID is defined at Extension Map.	(Read Only)
	Parking PhoneNo	The phone number (full number) + extension suffix that is parked. For example, 886212345678:13	(Read Only)
	Originator PhoneNo	The phone number (full number) + ext. suffix of the extension who activate call park to park other call, such as 88628765432114, then 886287654321 is full number and 14 is ext. suffix.	(Read Only)
	Type	Type of call park ° Xfer : Consult Transfer ° Park : Call Park, anyone can retrieve the call Hold : Call hold, only the original extension can retrieve the call °	(Read Only)
	Seq No	Sequential number of parked call.	(Read Only)

4.6.ACD

		Apply	Cancel
ACD Server Setting			
Server IP/Port:	0.0.0.0	/	0
ACD Control:	Disable	▼	
ACD Member Status			
Channel	Suffix	Registering Status	State
1	11	-	-
2	12	-	-
3	13	-	-
4	14	-	-
9	19	-	-
10	20	-	-
11	21	-	-
12	22	-	-
13	23	-	-
14	24	-	-
15	25	-	-
16	26	-	-
17	27	-	-
18	28	-	-
19	29	-	-
20	30	-	-

Type	Field	Description	Default
ACD Server Setting	Server IP/Port	Configure the IP address and Port number of ACD Server	0.0.0.0 / 0
	ACD Control	Enable : Enable ACD service Disable : Disable ACD service	Disable
ACD Member Status	Channel	The ID of FXS or SIP Line port that had joined ACD Server	(depend on model)
	Suffix	The extension suffix number of local FXS or SIP Line port that had joined ACD Server	(depend on model)
	Registering Status	The Registering status with ACD Server If the registration is OK, Web shows "Registered" If the registration is not OK, Web shows "registering" If the gateway don't register the ACD server, it shows "-" on web.	-

Type	Field	Description	Default
	State	The current status of FXS port Busy: Line is busy IDLE: Line is idle :- Never connect with ACD Server	-

4.7. Ring Group

Ring Group Setting			
Member Capacity:	40	Line Call Ring Time (20~300):	20 sec.
Current Member Entered:	0	C.O. Call Ring Time (20~300):	20 sec.

Ring Group 1 (Extension Number only)

Members: 0	Group Number: 100000001	Add Member:	Delete All
Member	Private IP/Port	Global IP/Port	

Ring Group 2 (Extension Number only)

Members: 0	Group Number: 100000002	Add Member:	Delete All
Member	Private IP/Port	Global IP/Port	

Ring Group 3 (Extension Number only)

Members: 0	Group Number: 100000003	Add Member:	Delete All
Member	Private IP/Port	Global IP/Port	

Ring Group 4 (Extension Number only)

Members: 0	Group Number: 100000004	Add Member:	Delete All
Member	Private IP/Port	Global IP/Port	

Type	Field	Description	Default
Ring Group Setting	Member Capacity	The max member capacity available for this machine	40
	Line Call Ring Time (20~300)	The max ring time duration for incoming call from extension. (If incoming call still hold after the duration, this machine terminate the call.	20 秒
	Current Member Entered	Ring group member accounts this have been configured.	0
	C.O. Call Ring Time (20~300)	The max ring time duration for incoming call from C.O. Trunk (PSTN). (If incoming call still hold after the duration, this machine terminate the call.	20 秒

Type	Field	Description	Default
Ring Group 1	Members	Members of this group (read only)	0
	Group Number	Input the unified number for this ring group	100000001
	Add Member	Add the extension number of members	blank
	Delete All (button)	Delete all data of members	
	Member List	Member: shows member's extension number.	
		Internal IP/Port: Internal IP/Port of members External IP/Port: External IP/Port of members	
Ring Group 2	Same as above	Same as above	Group number is 100000002
Ring Group 3	Same as above	Same as above	Group number is 100000003
Ring Group 4	Same as above	Same as above	Group number is 100000004

4.8.Digit Map

Note: This web page is for V3.04 or later only

Digit Map Function	
Control :	Enable
Digit Map Setting	
Maximum:	32
Entered:	0
Length per pattern:	24
Pattern List:	
Pattern	Delete
	Pattern
Add:	
Delete:	

(Description)

Type	Field	Description	Default
Digit Map Function	Control	When user dial auto-routing trunk outgoing call or VODNET call, add # to end dialing or wait for the dial ending time is required. Use Digit Map function, administrator can define common dialing behavior. Once what user dials matches the rule, number is sent immediately without # and the end of dial ending time. Enable/Disable	Disable
Digit Map Setting	Maximum	Maximum number of entries allowed (Read Only)	32
	Entered	Number of entries entered. (Read Only)	0
	Length per pattern	Max digits length of each entries (Read Only)	24
	Pattern List	Display the entries (Read Only)	
		Delete: Click Delete button to remove entry	
	Pattern	Add digit map pattern	
		Delete digit map pattern	
	Description (link)	Example of and description of Digit Map	

5.1.Inbound Authen.

Apply Cancel			
SIP Inbound Authentication			
Realm:	000362804151		
Maximum:	96		
Entered:	0		
Page 1 / 1 Show << >>			
Entity	Username	password	
Add/Modify:	1 v		
Delete:	ALL v		

Type	Field	Description	Default
SIP Inbound Authentication	Realm	Enter domain name or IP address of this machine (Such as SIPLine.vodtel.com.tw) or IP Address	MAC Address of this machine
	Maximum	Maximum number of entries (Read only) allowed	96
	Entered	Number of entries of authentication (Read only) entered.	0
		It shows the detail of Inbound authentication below (Read only) ■ Entity : SIP group number ■ Username : Account name ■ Password : Password, shows ****	
	Add/Modify	Enter entries of authentication ■ Entity: Which SIP entity that you select. ■ Username: Username of authentication. ■ Password: Password of authentication. ■ Confirm Password: Enter password again for confirmation.	
	Delete	Delete data of Inbound authentication ■ Entity : SIP group number ■ Username : Account name	

5.2.Outbound Authen.

SIP Outbound Authentication

Maximum: 64
Entered: 0

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Entity	Realm	Username	Password
Entity Realm Username			
Add/Modify:	ALL v		
		Password	Confirm Password
Entity Realm			
Delete:	ALL v		

Type	Field	Description	Default
SIP Outbound Authentication	Maximum	Maximum number of entries allowed (Read only)	64
	Entered	Number of entries of authentication (Read only)	0
		It shows the detail of Outbound authentication below (Read only)	
		Entity : SIP Group Number Realm : In most of case, it is the domain name or IP address of SIP Proxy. If none is entered, system replace it with the field in Public Address Setting of Web Folder: Advanced-SIP\Common Entity: Which entity that you select. Realm: Domain name or IP address. Username: Username of authentication. Password: Password of authentication.	
	Add/Modify	Enter the information of outbound authentication Entity: Select an entity. Realm: Domain name or IP address, however, for some proxy, it use special characters. Username: Enter Username of authentication. Password: Enter password of authentication. Confirm Password: Enter password again for confirmation.	
	Delete	Delete Outbound Authentication data Entity : SIP group number Username : Account name	

5.3.SIP Trunk Phone Book

				Apply	Cancel
SIP Trunk Phone Book					
Maximum:	100				
Entered:	0				
Enteries List:					
				Page 1 / 1	Show << >>
Index	SIP URL	Port	Via Proxy		
Add/Modify Entry					
	Index	SIP URL	Port	Via Proxy	
Add/Modify:		@	5060	No v	
Delete:					

Type	Field	Description	Default
SIP Trunk Phone Book	Maximum	Maximum number of entries (Read only) allowed	100
	Entered	Number of entries of phone books (Read only) entered.	0
	Entries List	Display phone books (Read only) - Index : Dialing number - SIP URL : SIP account with domain name. - Port : Port Number used - Via Proxy : Via SIP Proxy or not.	
Add/Modify Entry	Add/Modify	Input Phone number and SIP Phonebook - Index : input number you dial - SIP URL : Field 1 : User name (account) Field 2 : Domain name or IP address - Port : Input the port number used - Via Proxy : Via SIP Proxy or not.	
	Delete	Delete Phone number and SIP Phone Book Index : Delete Index (phone) number	

5.4.WAN IP & STUN

		Apply	Cancel
NAT WAN IP Address			
Set Address:	255.255.255.255	<i>(When STUN Disabled)</i>	
Current Address:	255.255.255.255 <i>(When NAT WAN IP is 255.255.255.255)</i>		
STUN Server (SIP Trunk Only)			
Control:	Disable		
STUN Server Setting			
Maximum:	5		
Entered:	0		
Server List:			
IP Address		Port	
	IP Address	Port	
Add Server:			
Delete Server:			
NAT Type			
Type:	Unknown		
Mapping List			
My IP Address / Port		Global IP Address / Port	

Type	Field	Description	Default
NAT WAN IP Address	Set Address (When STUN Disable)	Input NAT WAN IP helps this machine to penetrate NAT without using STUN Server. For different network condition and registration requirement, there are 4 kinds of conditions for configuration 1. The machine uses fix private IP and it is for LAN user only. Configure it to 0.0.0.0 2. The machine uses fix public IP directly. Configure it to 0.0.0.0 3. The machine is installed under NAT and it use fix private IP under NAT. Connection out side NAT use dynamic public IP and this machine is for users at both inside and outside NAT. Then configure it to 255.255.255.255 and work with DDNS is suggested, to prevent registration fail when IP Address is changed. 4. The machine is installed under NAT and it use fix private IP under NAT. Connection out side NAT use fix public IP and this machine is for users at both inside and outside NAT. Then configure it to the Public IP of NAT device. Attention: Improper configuration cause connection problem. Please configure it carefully according to real network situation and registration requirement.	255.255.255.255
	Current Address (When NAT IP is 255.255.255.255)	When NAT WAN IP is configured to 255.255.255.255, and LED of Time Srvr keeps ON, it shows the external public IP (Read only) N/A: When NAT WAN IP is not configured to 255.255.255.255	
STUN Server (SIP Trunk Only)	Control	Use the service provided by STUN Server. When this function is activated, NAT WAN IP is disabled. Enable/Disable	Disable
STUN Server Setting	Maximum	Maximum number of entries allowed	(Read only) 5
	Entered	Number of entries entered.	(Read only) 0
	Server List	List all entered data	(Read only)
	IP Address	Shows all entered IP Address of server	(Read only)
	Port	Shows all entered control port number of server	(Read only)

Type	Field	Description	Default
	Add Server	Add an entry of a new STUN Server IP Address: IP address of server Port: Control port of server	
	Delete Server	Delete an entry of a STUN Server IP Address: IP address that is going to delete Port: Control port that is going to delete	
NAT Type	Type	Show the current status of NAT	(Read only) Unknown
Mapping List	My IP Address / Port	Shows the NAT mapping table The private IP Address/ Port Number that is used under NAT	(Read only)
	Global IP Address / Port	The Public IP Address/ Port Number that is used for this machine	(Read only)

6.IP Settings

(Need Warm-Restart)

Apply

Cancel

IP Settings	
IP State:	Manual
Public IP Address	
IP/Port:	210.62.149.78/ 2000
Current Settings	
IP Address:	210.62.149.78
Subnet Mask:	255.255.255.0
Default Gateway:	210.62.149.254
Change To	
IP Address:	210.62.149.78
Subnet Mask:	255.255.255.0
Default Gateway:	210.62.149.254
DNS Server	
Primary Address:	168.95.1.1
Secondary Address:	0.0.0.0
VODNET Setting	
Serial Number	Priority
210.62.149.162 - 2000	1
Password:	
Netmosa Setting	
IP Address	Port
210.62.149.210	2000
Route Manager Setting Sync	
Manager(1)	
IP/Port:	0.0.0.0 / 0
VODNET ID:	
Security Key:	(range 100000 ~ 999999)
Manager(2)	
IP/Port:	0.0.0.0 / 0
VODNET ID:	
Security Key:	(range 100000 ~ 999999)
Collect Route Info From:	Gateway in PhoneBook
Whitelist of Network Management	
IP Address:	
IP Address:	
IP Address:	
IP Address:	
IP Address:	
Ping Response Mode	
Mode:	Enable
CDR Receiver	
IP Address:	0.0.0.0
Port:	0
Line CDR Report:	Disable

Type	Field	Description	Default
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/Port	IP Address / Port current used for this machine	
	Current Setting	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
	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)	
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 Setting : (Restart is required)	Serial Number	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 Input IP-Port of your own VODNET server, such as 211.65.24.31:2000 is also OK. (for V3.04 or later only)	
	Priority	The priority of the Serial Number above (Read Only)	
	Password	If password is required to register VODNET, please input here.	
NETMOSA Setting : (Restart is required)	IP Address	Input NETMOSA IP	0.0.0.0
	Port	Input NETMOSA Control Port	2000
Route Manager Setting : (Restart is required)	Sync	Link FONEMOSA 4498 (Click only)	
	IP Address (1)	Input IP Address of 1 st FONEMOSA 4498	0.0.0.0
	Port (1)	Input Port number of 1 st FONEMOSA 4498	0
	VODNET ID (1)	Input VODNET ID of 1 st FONEMOSA 4498	
	Security Key (1)	Input Security Key (Password) of 1 st FONEMOSA 4498	0

Type	Field	Description	Default
	IP Address (2)	Input IP Address of 2 nd FONEMOSA 4498	0.0.0.0
	Port (2)	Input Port number of 2 nd FONEMOSA 4498	0
	VODNET ID (2)	Input VODNET ID of 2 nd FONEMOSA 4498	
	Security Key (2)	Input Security Key (Password) of 2 nd FONEMOSA 4498	0
	Collect Route Info From	Select the source of Route Info. Options: ◆ Gateway in Phone Book : Phone Book in this Machine ◆ Route Manager : Assigned by Route Manager ◆ Both : From the sources above	Gateway in PhoneBook
Whitelist of Network Management (for V3.04 or later only)	IP Address (5 entries)	When this function is activated. Only PC from the IP Address listed here are able to manage Web, Console and FTP of this machine	
Ping Response Mode (for V3.04 or later only)	Mode	Enable: The machine accepts and replies each Ping request. Disable: The machine does not reply any Ping request. 5 Packets/Sec.: The machine reply Ping request max 5 Packets per second to defense attack from hacker	
CDR Receiver	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
	Line CDR Report	Provides additional CDR of dialing between extensions for calling side. The output CDR is TXT text file. For the format of CDR, please contact with distributor or us. Apply Smart Console license is required for this function. (Note: Extra charge is required for applying Smart Console License) Enable/Disable	Disable

7.Phone Book

Phone Book			
Maximum:	256		
Entered:	3		
Enteries List:			
Redundant Device List		Page 1 / 1	Show <<"/> >>"/>
Phone Number	IP Address	Port	Delete
	Phone Number	IP Address	Control Port
Add/Modify:			
Delete:			
Delete All:	Delete All		
Search In List:		Search	

Type	Field	Description	Default
Phone Book	Maximum :	Maximum number of entries allowed	256
	Entered :	Number of entries entered.	0
	Entered List :	List of entries ■ Phone Number ■ IP Address ■ Port (number)	(Read Only)
	Redundant Device List (sub-window) (for V3.04 or later only)	Add extra MOSA 4491 or MOSA 4600A for Redundant Device of extension number. Please refer to next section below.	
	Add/Modify	Phone number you want to add or modify ■ Phone Number : Number you want to add or modify (including country code + area code) ■ IP Address : IP address you want to add or modify ■ Control Port : Control port you want to add or modify	
	Delete	Phone number you want to delete (including country code + area code)	
	Delete All	Delete all static entries from the Phone Book or not Yes : Yes, delete all No : No	No

Type	Field	Description	Default
	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)	

Redundant Device List

Note: This web page is for V3.04 or later only

If there are two MOSA4491/4600A in your structure for redundant purpose of extension number system, administrator can configure it as below

1. Configure the two MOSA4491/4600A to have the same phone number (Web Path: 1.System Config.\Basic Information), but with different VODNET number.
2. Input the 2 sets VODNET number of the two MOSA4491/4600A into the Phone book of MOSA 4600 Plus with their IP are 0.0.0.0

Phone Book

Maximum: 256
Entered: 44
Enteries List:

Redundance Phone Book
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Phone Number	IP Address	Port	Delete
886218413147	59.120.208.119	2000	Delete
88614630	211.78.3.13	2000	Delete
2862003388	0.0.0.0	0	Delete
2862003399	0.0.0.0	0	Delete

3. MOSA 4600 Plus search the two MOSA4491/4600A automatically and add entries to the Redundant Device List
When entries is added, and the two MOSA4491/4600A is real, system shows entry in Redundant Device List

Redundant Device List			
Index	Phone Number	IP1/Port1	IP2/Port2

Type	Field	Description	Default
Redundant Device List	Index	Sequence number	
	Phone Number	Phone number of MOSA4491/4600A	
	IP1/Port1	Private IP/port that this device use	
	IP2/Port2	Public IP/Port that this device use	

4. Create Redirect.map file and upload the same Redirect.map file to 2 boxes of MOSA4491/4600A. In Redirect.map

file, administrator can take the advantage of "*" (wild card) that means uncertain digits, and "PP", means send digits after PP when called side answers. It can reduce the entries should be created dramatically.

◆ Appendix: Application of Redirect Map at **MOSA4491/4600A (not in this machine)**

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

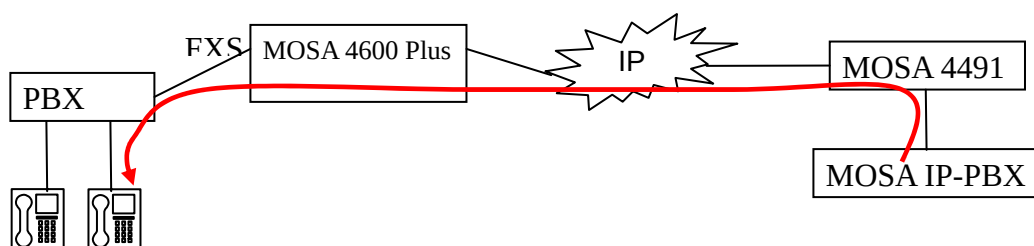
Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	Field 9	Field 10
RSVD1	RSVD2	Forward No.	RSVD3	Suffix	Query	IP address	UDP port	Offnet No.	Note
0	0	886282263333	-1	6***	F	59.120.200.103	2000		;Headquarters



Field: (10 fields)

1. Reserve code for system (has to be 0)
2. Reserve code for system (has to be 0)
3. 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.
- For dialing number from MOSA IP-PBX, "*" (wild card) function also can be used.

For example, when the phone number of **MOSA 4491** is 886282264491, administrator can configure extension table below

"**MOSA 4600 Plus**" Web Path : 1.System Config.\1.3.Extension Number

	Prefix/Ext. No.	Phone Number	Type
Add/Modify:	999****	886282264491	iPBX

When user dials any number with prefix 999, the number is sent to MOSA 4491, then dealt and analyzed by Redirect.map to forward calls.

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). For the value of this field, it can be "PP" first, means send digits after PP when called side answers. It also can be "*", "*" means 0~9. For example, PP12** means to wait called side answer the call, then send 12xx, xx means any 2 digits.
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



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.

8. Voice Mail

(Need Warm-Restart)

Apply

Cancel

Create Directory

Remote Host/IP:

Remote Directory:

uid:

gid:

VM Extension Number:

Visible in FTP: ☒

Current Setting

Initialize

Clear All

Status: Demo Only

Direct ID: 621181001

Remote Host/IP: 0.0.0.0

Remote Directory: /user

Local Directory: /disk0

NFS Error Count: 0

User List

Page 1 / 1

Show

<<

>>

User ID	Latest New Message	New	Stored
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Type	Field	Description	Default
Create Directory	Remote Host/IP	Configure the IP address of the device that store voice message.	
	Remote Directory	Configure the directory name of the device that store voice message.	
	uid	Configure uid of storage device	
	gid	Configure gid of storage device	
	VM Extension Number	Configure unified Extension Number for VM	1099
	Visible in FTP	Manage files via FTP server of this machine	Yes
Current Setting (Read only)	Initialize (button)	Initialize connection with storage device	
	Clear All (button)	Clear connection information with current storage device	
	Status:	Demo Only: default value for demonstration purpose only. Ready: Full purpose function that is upgraded with charge	Demo Only
	Direct ID	Connection ID	

Type	Field	Description	Default
	Remote Host/IP	IP address of storage device. If internal memory is used, it shows RAMSERV	RAMSERV
	Remote Directory	Directory name of the device that store voice message.	
	Local Directory	The management FTP folder via this machine.	/disk0
	NFS Error Count	When file is saved failed, counter plus 1.	0
	User List	Page: input the page number that will show Show, <<, >>: show page, previous, next User ID: Normally, it is extension number. Latest New Message: the time of latest new message New: new messages that have not been read. Stored: messages that have been read.	1

9.File Transfer

Put File from PC to this Device

Select File: 瀏覽... Clear

Send

Result: N/A

Get File from this Device to PC

File Name	Size	Date	Time	Get
XP4421.RUN	1667420 Bytes	2006/02/23	10:00:00	
XP4421.CFG	131152 Bytes	2006/01/01	00:00:00	
XP44XX.GT1	6172 Bytes	2005/05/05	10:22:44	
XP44XX.GT2	7360 Bytes	2000/01/01	00:08:50	
XP44XX.GT3	5424 Bytes	2000/01/01	00:09:10	
XP44XX.GT4	3708 Bytes	2000/01/01	00:09:30	
XP44XX.GT5	8240 Bytes	2000/01/01	00:10:45	
XP44XX.GT6	8108 Bytes	2000/01/01	00:11:05	
XP44XX.GT7	8020 Bytes	2000/01/01	00:12:13	
XP44XX.GT8	54308 Bytes	2004/09/14	19:05:30	
XP44XX.MEM	89 Bytes	2006/01/01	00:00:00	
XP4421.WEB	73232 Bytes	2006/02/08	13:52:00	

(Sample MEM File)

Type	Field	Description	Default
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Type	Field	Description	Default
Put File from PC to this Device	Select file	Browse (button): Select the file that will upload to this machine Send (button): Execute upload action Clear (button): Clear the file and path that had been input Attention: Run Cold Restart is required when .RUN and .Web file is uploaded	
	Result	Shows the upload status Success: file is uploaded successful and take effect 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	N/A
Get File From this Device to PC	File Name	Shows the file information of in this machine currently. File Name	
	Size	File Size	
	Date	File date	
	Time	File time	
	Get	Select file that can be download to PC	

IP Search & Phone Number Search & Show Route

IP Search	
Phone Number:	Search
IP1 / Port:	
IP2 / Port:	
Phone Number Search	
IP / Port:	Search
Phone Number:	
Show Route	
Route:	Show
IP/Port	Cost Derived

Type	Field	Description	Default
IP Search	Phone (or Ext.) Number	Input phone number (full number) to search the IP Address/ Port No. Search: Click this button to search after Phone Number is input. System shows 2 sets of IP if it is found.	
	Phone Number	If the Phone (or Ext.) Number above inquired is the extension number existed in extension table, it shows related Phone Number.	
	IP1/Port	Display IP Address/Port of Public IP	(Read Only)
	IP2/Port	Display IP Address/Port of Private IP	(Read Only)
Phone Number Search	IP / Port	Input IP/Port Number to search the phone number (full number). Search: Click this button to search after IP/Port Number is input.	
	Phone Number	Display phone number (full number) that is found	(Read Only)
Show Route	Route	Input country code + area code to shows the route mapping Show : Input the Route and show the result	

Type	Field	Description	Default
		Cost : Shows the Cost. The lowest cost will be used first. IP/Port : Shows the IP Address and Port Number of the machine of this route. Derived : When there are two route with the same cost, the route with lower Derived value will be used.	(Read Only)

-Restart-

192.168.10.2
Warm Restart ▼
Apply

Type	Field	Description	Default
Restart	IP address of this machine (Read Only)	Restart menu of this machine ■ Cold Restart ■ Cold Restart(Pend) : Do cold restart when all channel is idle ■ Warm Restart ■ Warm Restart(Pend) : Do warm restart when all channel is idle Apply (button) : Do the selection above	Warm Restart