

PLEXTEL IP-PBX

USER MANUAL

Version 2.1

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Chapter 1: Extensions Management

1.1 Group Manager: See “Group” Menu on the left hand size menu. This page is used to classify group of extension or users in the system. It will be useful to define priority and billing term for any company or organization. By default, the group that has been created by the system is called “Default”, and please remind that this group can not be deleted.

Group Manager
[\[View \]](#) [\[Add New Group \]](#)

Display 1 - 3 From 3

<input type="checkbox"/>	GID	Company	Department	Position	Music on hold	Edit
<input type="checkbox"/>	0	Default	Default	Default	Default	
<input type="checkbox"/>	1	poise	eng	test	eng	

Page1 :

If we want to add a new group, we select “Add New Group”, the following screen will be shown:

Group Manager
[\[View \]](#) [\[Add New Group \]](#)

GID	Company	Department	Position	Music on hold	
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	Default	<input type="button" value="Add Group"/>

“Music on Hold” is the name of music group, which it will be played while calling every extension in this group, and different group can be assigned with different music . When we input all values, we can press “Add Group” button, then the system will show like the following screen:

Group Manager
[\[View \]](#) [\[Add New Group \]](#)

Display 1 - 3 From 3

<input type="checkbox"/>	GID	Company	Department	Position	Music on hold	Edit
<input type="checkbox"/>	0	Default	Default	Default	Default	
<input type="checkbox"/>	1	poise	eng	test	eng	
<input type="checkbox"/>	2	poise	sale	sale	Default	

Page1 :

1.2 Add Extensions : See “Extensions →Add Extensions” Menu, this menu is used to add extensions into the system. It will be classified to be two types:

1.Add Sip Extension: Adding one by one like 1001, 5002, 7065,

2.Add Multiple Sip: Adding 2 and more extensions in range like 1001-1020, 4010-4050,

When we describe 2 types of adding, we can observe that all parameters look same except first parameter, “Extension”.

Add SIP Extension Phone Setting:

Group Name	Default:Default:Default ▼
Phone Number	<input type="text"/>
Caller ID	<input type="text"/>
Password	<input type="text"/>

Phone Number : This blank is used to assign phone number like 1001,3001, 6441,.....

Caller ID: This value is used to assign caller name or number which this value will be shown when we use this phone call to another phone in Pextel IP-PBX system. We can assign same as phone number like “1001”, “5005”, or assign with name like “John”, “Jane”, or assign both like “ John 1001”

Auto Provisioning: This menu is used to setup ip-phone by pass these parameters to specific ip-phone without direct setup on that ip-phone.

Auto Provisioning:

ENABLE	<input type="checkbox"/>
Phone Type	NONE ▼
Phone MAC Address	<input type="text"/>
Allow Firmware Upgrade	<input type="checkbox"/>
Custom Command	<div><div></div></div>

ENABLE: Click for Enable this function.

Phone Type: Select model of ip-phone from list menu, SNOM 300, SNOM 320, SNOM 360, SNOM370, SNOM820, SNOM821, SNOM870, Yealink SIP-T12P, Yealink SIP-T18P, Yealink SIP-T20P, Yealink SIP-T22P, Yealink SIP-T26P, and Yealink SIP-T28P

Phone MAC Address: Input MAC address of this ip-phone.

Allow Firmware Upgrade: If we would like to allow firmware upgrade automatically by the system, we have to click here.

Custom Command: This blank is used to add some further command. (only advanced user or developer)All parameters left same as “Add Multiple Sip” like this example

Extension Manager

[\[View Extensions \]](#) [\[Add SIP Extension \]](#) [\[Add Multiple SIP \]](#) [\[Add IAX Extension \]](#) [\[Add Analog Extension \]](#) [\[View All,Add Follow-Me Extension\]](#)

Add SIP Extension

Phone Setting:

Extensions Range	<input type="text"/> through <input type="text"/>
Group Name	Default:Default:Default ▾
Password	<input type="text"/>
Enable BLF	no ▾
Codec	<input checked="" type="checkbox"/> G.711u <input checked="" type="checkbox"/> G.711a <input type="checkbox"/> GSM <input type="checkbox"/> G.729 <input type="checkbox"/> G.723.1 <input type="checkbox"/> iLBC <input type="checkbox"/> Speex <input type="checkbox"/> lpc10 <input type="checkbox"/> adpcm <input type="checkbox"/> G.726
Video Codec	<input type="checkbox"/> H.261 <input type="checkbox"/> H.263 <input type="checkbox"/> H.263p <input type="checkbox"/> H.264
dtmf mode	rfc2833 ▾
Extension Monitor	yes ▾
Concurrent Call Support	12
Enable REINVITE	default ▾
NAT Support	default ▾
Support T.38 FAX	default ▾
SIP Additional Setting	<div></div>

Dial Option:

- ☒ Allow calling user to Transfer (T)
- ☒ Allow called user to Transfer (t)
- ☒ Allow calling user \"One Touch Record\" (W)
- ☒ Allow called user \"One Touch Record\" (w)
- ☐ Generate a ringing tone (r) ☒ Provide Music on Hold (m)

Call Features:

Ring Timeout	30 ▾
Pickup Call from	Default:Default:Default poise:eng:test poise:sale:sale
Record Incoming Calls	<input type="radio"/> Yes <input checked="" type="radio"/> No
Record Outgoing Calls	<input type="radio"/> Yes <input checked="" type="radio"/> No
Support Intercom	<input type="checkbox"/>
Allow BARGE Call	<input type="checkbox"/>
Default Language	Thai ▾
Allow Roaming Station Feature	No ▾

Mailbox:

User Email Address :

Enable Message Center User Login : Yes ▾

Voice Mailbox :

Enable Voicemail Box : Enabled ▾

Send Voice Message To Email : ☐ Yes ☒ No

Voice Mailbox Description :

Voicemail Password (fix) :

Voice Mailbox Size (messages) :

Fax Mailbox

Enable Fax Mailbox : No ▾

Send Fax Message Notification To Email : Yes ▾

Attached Fax File To Notification Email : Yes ▾

Send Voicemail Notification For Incoming Fax : Yes ▾

Fax Mailbox Size : 20 ▾

Contact Information

Picture : Browse...

Business Phone :

Home Phone* :

Business Fax :

Mobile :

Address :

Note :

APPLY Cancel

Extension range: This value is used to add extension number in range, sequentially, like 1001-1009, 2001-2099.

Group Name: This value is used to assign group name, which assigned group is shown here has been assigned from “ Group Manager Menu”. We can use a mouse click on drop down list then all assigned group will be shown like this example

Group Name	Default:Default:Default ▾
Password	Default:Default:Default
Enable BLF	poise:eng:test
	poise:sale:sale

By automatically, if we don't select any group, the system will assign to be default group like “ Default: Default: Default” . If we would like to assign other group, we can click mouse on that specific group.

Password: This value is used to assign ip-phone password, which this password is used to verify when ip-phone make registration to the system.

Enable BLF: Click for enable “Busy Lamp Field”, which this function will be available as shown in list menu like SNOM 300, SNOM 320, SNOM 360, SNOM370, SNOM820, SNOM821, SNOM870, Yealink SIP-T12P, Yealink SIP-T18P, Yealink SIP-T20P, Yealink SIP-T22P, Yealink SIP-T26P, and Yealink SIP-T28P. This function is used to monitoring status of another phone, if monitored phone show busy status, we can see red light at the button which we assign to monitor.

Codec: This menu allow us to select codec type, if we don’t select anyone, the system will assign to be G711u and G711a, default codec used in sip protocol.

Video Codec: This menu allow us to select video codec, but anyway we should select this by reference from video phone type.

DTMF Mode: This value is the frequency used on this ip-phone panel, by default, in Thailand we use RFC2833.

Extension Monitor: If we select “yes”, we can monitor ip-phone ‘s registry status at menu Status -> Phone monitor like this example.

No	Number	Name (Callerid)	IPaddress	Natsupport	VideoSupport	Status	Type
1	192.168.0.124		192.168.0.214	no	no	Unmonitored	SIP
2	4000		-none-	no	no	Unmonitored	SIP
3	sipsite_wwwww		-none-	no	no	UNKNOWN	SIP
4	trunk%%sip%%asdf		0.0.83.97	yes	no	Unmonitored	SIP
5	3004	3004	-none-	no	no	UNKNOWN	SIP
6	3003	3003	-none-	no	no	UNKNOWN	SIP
7	3002	3002	-none-	no	no	UNKNOWN	SIP
8	3001	3001	192.168.0.190	no	no	OK (48 ms)	SIP
9	3000	3000	-none-	no	no	UNKNOWN	SIP

The green bar show 3001 is registered.

Concurrent Call Support: This value is number of lines that we allow to call this phone in same time.

Enable REINVITE: If we select “yes”, ip-phone can communicate each other without server, which it can reduce server load, but however we can not send signal like transferring anymore.

Nat Support: This value will be set as “yes” when this phone register from different network.

Support T.38 Fax: This value will be set as “yes” when we set this extension to work with T.38 fax system.

Sip Additional Setting: This value is reserved for advanced user or developer who want to add more qualification to this extension.

Dial Option: This value is used to set option related with dialing like line transfer, ringing option, and if we don’t select this, the system will set as proper default value.

Ring Timeout : Time in second unit that we assign this phone ring when there is incoming line, when timeout the system will perform assigned fuction like voicemail or follow me, depends on our setting.

Pickup Call From: List menu here is all assigned group name. we can select group if we want to allow call pickup all phones in that group from this extension. Anyway this menu allow us to select more than one group.

Pickup Call from	Default:Default:Default
	Poise:IT:Programmer
	Poise:IT:Engineer

Record Incoming Call: If we select “yes”, the system will record all conversation when there is incoming line to this phone. To see recorded file, go to menu Sound → Call Record File

Record Outgoing Call: If we select “yes”, the system will record all conversation when there is outgoing line from this phone. To see recorded file, go to menu Sound → Call Record File

Default Language: Select the default language, which it will be displayed in voicemail, conference and any provided system.

Allow Roaming Station Feature: Select “yes” to allow registration from other phone. (To use this feature please see menu “Key Features”).

Support Intercom: Intercom is the two way communication between 2 ip-phone by press only one programmed button, so only listed ip-phone here can use this function.

Mailbox: If select “ Enable” , this phone will have own voice mailbox.

Mailbox:User Email Address : Enable Message Center User
Login : **Voice Mailbox :**Enable Voicemail Box : Send Voice Message To Email : ☐ Yes ☒ NoVoice Mailbox Description : Voicemail Password (fix) : Voice Mailbox Size (messages) :

User Email Address: Input email address for this user to link with Plectel 's message center system.

Enable Message Center User: Click here to allow this extension (user) has it own personal message center.

Enable Voicemail Box: Click here to enable personal voicemail box.

Send Voice Message to Email: If select "yes", mean assign system to forward voicemail message to specific mailbox.

Voice Mailbox Description: Input the description of this voicemailbox.

Voicemail Password(fix): Input password to access this mailbox.

Voice Mailbox Size (Messages): Input number of mailbox.

Contact Information: Input information for this user.

Contact Information

Picture :

Business Phone :

Home Phone* :

Business Fax :

Mobile :

Address :

Note :

1.3 Add IAX Extensions

IAX abbreviate from Inter-Asterisk eXchange, which has been developed for used in asterisk system only, and can not communicate with other techlogy except devices which have been designed to work with IAX. The main purpose of this protocol is elimination of NAT problem founded in SIP protocol.

Normally, when we implement IP-PBX in organization, security issue is the most important issue to concentrate, so every device have to pass firewall. When we use ip-phone with sip protocol we always see “Register Fail” message, that means sip ip-phone can not work properly with some firewall, even the admin said every ports have been opened. To avoid this problem, asterisk developer has designed IAX protocol, which run on only one port, 4569, and can save 50% of bandwidth, if compare with sip.

To add IAX extension, go to menu Extensions → Add IAX Extension , the following screen will be shown.

Extension Manager

[[View Extensions X](#)] [[Add SIP Extension X](#)] [[Add Multiple SIP X](#)] [[Add IAX Extension X](#)] [[Add Analog Extension X](#)] [[View All X, Add Follow-Me Extension X](#)]

Add IAX Extension

Phone Setting :

Group Name	Default:Default:Default ▾
Phone Number	<input type="text"/>
Caller ID	<input type="text"/>
Password	<input type="text"/>
Enable BLF	no ▾
Phone IP-Address	dynamic ▾
Codec	<input checked="" type="checkbox"/> G.711u <input checked="" type="checkbox"/> G.711a <input type="checkbox"/> GSM <input type="checkbox"/> G.729 <input type="checkbox"/> G.723.1 <input type="checkbox"/> iLBC <input type="checkbox"/> Speex <input type="checkbox"/> lpc10 <input type="checkbox"/> adpcm <input type="checkbox"/> G.726
Video Codec	<input type="checkbox"/> H.261 <input type="checkbox"/> H.263 <input type="checkbox"/> H.263p <input type="checkbox"/> H.264
Phone Monitor	yes ▾
IAX Additional Setting	<div><div></div></div>

Dial Option :

- ☒ Allow calling user to Transfer (T) X
- ☒ Allow called user to Transfer (t) X
- ☒ Allow calling user \"One Touch Record\" (W) X
- ☒ Allow called user \"One Touch Record\" (w) X
- ☐ Generate a ringing tone (r) X ☒ Provide Music on Hold (m) X

Call Features :

Ring Timeout	30 ▾
Pickup Call from	Default:Default:Default poise:eng:test poise:sale:sale
Record Incoming Calls	<input type="radio"/> Yes <input checked="" type="radio"/> No
Record Outgoing Calls	<input type="radio"/> Yes <input checked="" type="radio"/> No
Default Language	Thai ▾
Allow Roaming Station Feature	No ▾

Mailbox :

User Email Address :	<input type="text"/>
Enable Message Center User Login	Yes ▾

Voice Mailbox :

Enable Voicemail Box :	Enabled ▾
Send Voice Message To Email :	<input type="radio"/> Yes <input checked="" type="radio"/> No
Voice Mailbox Description :	<input type="text"/>
Voicemail Password (fix) :	<input type="text"/>
Voice Mailbox Size (messages) :	<input type="text"/>

Fax Mailbox

Enable Fax Mailbox :	No ▾
Send Fax Message Notification To Email :	Yes ▾
Attached Fax File To Notification Email :	Yes ▾
Send Voicemail Notification For Incoming Fax :	Yes ▾
Fax Mailbox Size :	20 ▾

Contact Information X

Picture X :

Business Phone X :

Home Phone X* :

Business Fax X :

Mobile X :

Address X :

Note X :

The previous screen present every parameters look like “Add Sip Extension”, actually everything same, different only its protocol. When we complete adding, press Add Ext, then the following screen will be shown:

Extension Manager

[[View Extensions](#)] [[Add SIP Extension](#)] [[Add Multiple SIP](#)] [[Add IAX Extension](#)] [[Add Analog Extension](#)] [[View All, Add Follow-Me Extension](#)]

Display **1 - 21** From **21**

20

Extension Import

<input type="checkbox"/>	Number	Type	Group	Pickup Call From	BLFI/RO/RINT	Lang	AP	Phone Type	DID	Followme	Roaming	User Email	Vmail	FAX mailbox	Edit
<input type="checkbox"/>	1000 : on Thousand	sip	Default:Default:Default		✓	✓	✓	x	Thai	x	none	nicrora@hotmail.com	✓	-	
<input type="checkbox"/>	1001 : two	sip	Default:Default:Default		✓	✓	✓	x	Thai	✓	snom360		✓	✓	
<input type="checkbox"/>	1002 : 1002	sip	Default:Default:Default		x	✓	✓	x	Thai	x	none		✓	✓	
<input type="checkbox"/>	1003 : 1003	sip	Default:Default:Default		x	✓	✓	x	Thai	x	none		✓	✓	
<input type="checkbox"/>	1004 : 1004	sip	Default:Default:Default		x	✓	✓	x	Thai	x	none		✓	-	
<input type="checkbox"/>	1005 : 1005	sip	Default:Default:Default:Default:Default:Default		x	✓	✓	x	Thai	x	none		✓	✓	
<input type="checkbox"/>	1006 : 1006	sip	Default:Default:Default		x	✓	✓	x	Thai	x	none		✓	-	
<input type="checkbox"/>	1007 : 1007	sip	Default:Default:Default:Default:Default:Default		x	✓	✓	x	Thai	x	none		✓	✓	
<input type="checkbox"/>	1008 : 1008	sip	Default:Default:Default		x	✓	✓	x	Thai	x	none		✓	-	
<input type="checkbox"/>	1009 : 1009	sip	Default:Default:Default		x	✓	✓	x	Thai	✓	yealinkt28		✓	✓	
<input type="checkbox"/>	1010 : 1010	sip	Default:Default:Default		x	✓	✓	✓	Thai	✓	yealinkt26		✓	-	
<input type="checkbox"/>	1119 : 1119	sip	Default:Default:Default		x	✓	✓	x	Thai	✓	yealinkt22	✓	✓	-	
<input type="checkbox"/>	1144 : 1144	sip	Default:Default:Default		x	✓	✓	x	Thai	✓	yealinkt20		✓	-	
<input type="checkbox"/>	2000 : Mr. TT Two Thoudsand	iax	Default:Default:Default:Default:Default:Default		x	x	x	x	Thai	x	none		✓	-	
<input type="checkbox"/>	3000 : 3000	sip	poise:eng:test	Default:Default:Default:poise:eng:test	x	✓	✓	✓	Thai	✓	yealinkt18		✓	✓	
<input type="checkbox"/>	3001 : 3001	sip	poise:eng:test	Default:Default:Default:poise:eng:test	x	✓	✓	✓	Thai	x	none		✓	✓	
<input type="checkbox"/>	3002 : 3002	sip	poise:eng:test	Default:Default:Default:poise:eng:test	x	✓	✓	✓	Thai	x	none		✓	✓	
<input type="checkbox"/>	3003 : 3003	sip	poise:eng:test	Default:Default:Default:poise:eng:test	x	✓	✓	✓	Thai	x	none		✓	✓	
<input type="checkbox"/>	3004 : 3004	sip	poise:eng:test	Default:Default:Default:poise:eng:test	✓	✓	✓	✓	Thai	x	none		✓	✓	
<input type="checkbox"/>	6000 : 6000	iax	Default:Default:Default		✓	x	x	x	Thai	x			✓	-	

This example we can see that Ext 6000 present as iax protokol.

1.4 Add Analog Extension

Analog Extension is a type of extension that using analog phone connect with analog card (FXS port), while analog card can be pci card or external device like channelbank.

To add analog extension, everything same as sip extension adding so we can go to menu **Extension → Add Analog Extension**, the following screen will be shown:

Extension Manager

[View Extensions] [Add SIP Extension] [Add Multiple SIP] [Add IAX Extension] [Add Analog Extension] [View All , Add Follow-Me Extension]

Add DAHDI Extension

Phone Setting :

Group Name	Default::Default::Default ▾
Phone Number	<input type="text"/>
DAHDI Port	▾
Caller ID	<input type="text"/>
Transmit Volume Gain	0.0
Receive Volume Gain	0.0
DAHDI Additional Setting	<div></div>

Dial Option :

- ☒ Allow calling user to Transfer (T) X
- ☒ Allow called user to Transfer (t) X
- ☒ Allow calling user \"One Touch Record\" (W) X
- ☒ Allow called user \"One Touch Record\" (w) X
- ☐ Generate a ringing tone (r) X ☒ Provide Music on Hold (m) X

Call Features :

Ring Timeout	30 ▾
Pickup Call from	Default::Default::Default poise::eng::test poise::sale::sale
Record Incoming Calls	No ▾
Record Outgoing Calls	No ▾
enable callwaiting	Yes ▾
enable callwaiting-callerid	No ▾
enable threewaycalling	No ▾
Default Language	English ▾
Allow Roaming Station Feature	No ▾

Mailbox :

User Email Address	<input type="text"/>
Enable Message Center user login :	Yes ▾

Voice Mailbox :

Enable Voicemail box :	Disabled ▾
Send Voice Message to Email :	No ▾
Voice Mailbox Description	<input type="text"/>
Voicemail Password (fix)	<input type="text"/>
Voice Mailbox Size(messages)	<input type="text"/>

Fax Mailbox :

Enable Fax Mailbox :	No ▾
Send Fax Message Notification to Email :	No ▾
Attached Fax file to Notification Email :	No ▾
Send Voicemail Notification for incoming Fax :	No ▾
Fax Mailbox Size :	20 ▾

Contact Information

Picture :

Business Phone :

Home Phone * :

Business Fax :

Mobile :


Address :

Note :

1.5 Add Follow-Me Extension

Follow-Me here means assign forwarding when some one call this number and no response in specific time, we can assign automatically forward in this menu.

To set Follow-Me, go to menu **Extensions** → **Add Follow-Me Extension**, the following screen will be shown:

Plextel System: 

Show All | Close All

- ❖ Status
- ❖ Report
- Group Manager
- Extensions**
- Fax
- Call Control
- ❖ Call Features
- ❖ Sounds
- Incoming Call
- Outgoing Call
- Schedules
- IVR
- Site to Site Setup
- ❖ Manual Config
- ❖ Voice Interface
- Log
- ❖ Advanced

Extension Manager

[View Extensions] [Add SIP Extension] [Add Multiple SIP] [Add IAX Extension] [Add Analog Extension] [**View All, Add Follow-Me Extension**]

Add Follow-Me Extension:

Extensions Number

Enable

Music On-Hold

First Level Number

Dial Timeout

Number 1: 2: 3:

Second Level Number

Dial Timeout

Number 1: 2: 3:

Third Level Number

Dial Timeout

Number 1: 2: 3:

Plextel Enterprise Version 2

There are three levels of forwarding, if First Level can not answer can not answer on time (Dial Timeout), line will be forward to Second and Third level automatically.

All parameters can be explained as follows:

Extension Number: Input specific extension, which we have to select once from drop down list.

Enable: If select “Yes”, enable this function, and “No” for disable.

Music On-Hold: Select Music On-Hold from list.

Dial Timeout: Unit of time in second, which the system will countdown, and perform next level when time up.

Number: Three of destination number which they will ring all when assigned, or we can assign one or two number.

An example of Follow-Me:

Extensions Number	<input type="text" value="SIP/1001"/>		
Enable	<input type="text" value="yes"/>		
Music On-Hold	<input type="text" value="Default"/>		
First Level Number			
Dial Timeout	<input type="text" value="15"/>		
Number	1: <input type="text" value="1002"/>	2: <input type="text" value="1003"/>	3: <input type="text"/>
Second Level Number			
Dial Timeout	<input type="text" value="15"/>		
Number	1: <input type="text" value="2001"/>	2: <input type="text" value="2002"/>	3: <input type="text" value="2003"/>
Third Level Number			
Dial Timeout	<input type="text" value="15"/>		
Number	1: <input type="text" value="90866121905"/>	2: <input type="text"/>	3: <input type="text"/>
<input type="button" value="APPLY"/> <input type="button" value="Cancel"/>			


This example is shown followme of 1001, if 1001 does not answer in 15 s, call will be forwarded to 1002 and 1003 (First level), if 1002 and 1003 do not answer in 15 s, call will be forwarded to 2001,2002,2003 (second level), then third level. In this example, at third level, destination number is mobile phone number with prefix “9”, because we have to apply acceptable rule of the existing system.

When we finish, press “Save” and the following screen will be shown:

Extension Manager

[[View Extensions](#)] [[Add SIP Extension](#)] [[Add Multiple SIP](#)] [[Add IAX Extension](#)] [[Add Analog Extension](#)] [[View All, Add Follow-Me Extension](#)]

Follow-Me Extension:

<input type="checkbox"/>	Number	Enable	List Number	Edit
<input type="checkbox"/>	1001	yes	Level1--> 1002,1003, Level2--> 2001,2002,2003 Level3--> 90866121905,,	

Page 1 : [Delete Selected](#)

If we would like to see what extension have been set follow-me, we can see at menu **Extensions** → **View All**

Chapter 2: External Line Configuration

2.1 Voice Interface Hardware

This menu is the most important part of the system and it should be setup at beginning because this part is the interface part between IP-PBX and PSTN.

PSTN channels can be classified into 2 types, as following:

1. Analog Channel : The telephony line inform of copper line with RJ11 connector. There are 2 types of modules :

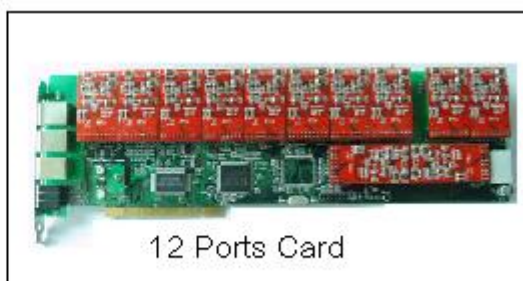
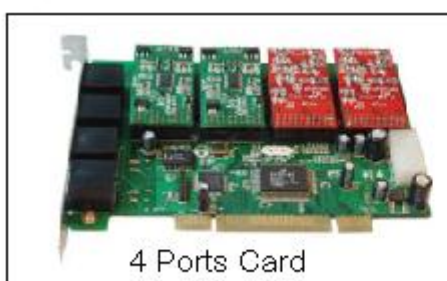
1.1 FXO Interface: Connect with PSTN line.



1.2 FXS Interface: Connect with normal analog telephone.



In term of PCI analog telephony card, there are many types which have been classified by number of ports (FXS or FXO) used.



2. Digital Channel: Digital telephone system which in Thailand the popular one is called ISDN PRI or E1, and there are 30 channels, concurrent call, per 1 line.

Due to IP-PBX system, to implement E1 system, we need E1 card, which one card can be reached 4 E1 line, depends on requirement.



Next, to configure card, go to menu Voice interface → Voice Interface Hardware, then we press on “Detect Hardware”, the system will show detected card which is put in pci slot on this moment.

Plextel System:

Show All | Close All

- Status
- Report
- Group Manager
- Extensions
- Fax
- Call Control
- Call Features
- Sounds
- Incoming Call
- Outgoing Call
- Schedules
- IVR
- Site to Site Setup
- Manual Config
- Voice Interface
 - Voice Interface Hardware**
 - PSTN Trunk Setting
 - SIP Trunk Setting
 - Mobigate
 - Gateway

Voice Interface Hardware

[Current Interface] [**Detect Hardware**] [Advanced Settings]

Group Number : [1] Active : yes Status : OK

Device Type : Location :

Interface Type : analog

Port :

1	2	3	4	5
mg2	mg2	mg2	mg2	mg2
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ selectAll

Echo Cancellation Technique
mg2 Save Value

APPLY Cancel

Plextel Enterprise Version 2

This previous picture show analog card with 4 FXO and 1 FXS module, then we press “Apply” and the system will show yellow bar at the top screen with wording “Click here to Restart IP-PBX”, click it again.

Group Number : [1] **Active :** yes **Status :** RED
Device Type : Astribank: Unit 0 Subunit 0: E1 **Location :** usb-0000:00:1d.7-8
Interface Type : digital-E1
Interface Range : 1 to 31
Clock/Sync Source :
 use incoming SYNC as primary sync source
Cable Length: 0 db (CSU) / 0-133 feet (DSX-1)
Frame Type: CCS
Line Decoding: HDB3 **CRC :** Yes
Echo Cancellation Technique: mg2
 Save Value
 APPLY Cancel

This previous show digital channel type and device is asteriskbank, external channel bank with USB interface. Next, select “use incoming SYNC as primary source”, click APPLY, the system will show yellow bar at the top screen with wording “Click here to Restart IP-PBX”, click it again.

****** If your using card is Sangoma, you have to set it first at menu Advaced Setting and select Sangoma as following example.

Voice Interface Hardware
 [Current Interface] [Detect Hardware] [**Advanced Settings**]
Advanced Setting
Interface Type
 Digium Compatible
 Sangoma
Dial-Tone
 th
 APPLY Cancel

2.2 PSTN trunk Setting

Next, go to menu Voice Interface → PSTN Trunk Setting, and choose Add Analog Trunk, the following screen will be shown

Dahdi Interface Setting

Interface Type analog

1) Interface Setup

Description test

Channel Number 1 - 4

Channel Group None

Trunk Name trunk:dahdi:test

Record Incoming Calls ☐ Yes ☒ No

Record Outgoing Calls ☐ Yes ☒ No

Default Language th

Usage Type Wizard Voice (FXO)

Channel TYPE FXO

Echo Cancel yes

Echo Cancel on Pure TDM yes

Echo Training no

Relax DTMF yes

TX Gain 0.0

RX Gain 0.0

Busydetect yes

Busycount 3

Country-Tone yes Country Code TH

Pulse Line no

Caller ID Num

Caller ID Name

Immediate(FXS only) ☐ Yes ☒ No

Additional Setting

Available Options:
 hanguponpolarityswitch=yes/no
 answeronpolarityswitch=yes/no
 busypattern=500,500
 usecallerid=no(as answer call immediately)

APPLY Cancel

Some parameter has been set as default, no need to change it, we will focus on these following:

Channel Number: This value we have to assign related with “Define Raw Interface Card), if

It has 1-4 channel as FXO, we have to input 1-4.


Trunk Name: Input name of this trunk.

Record Incoming Call: If we would line to record all incoming line, select “yes”, and we can see recorded file at menu Soun → Call Recording File.

Record Outgoing Call: : If we would line to record all outgoing line, select “yes”, and we can see recorded file at menu Soun → Call Recording File.

Channel Type: Choose FXO or FXS

When complete all values, press “Add”, the following screen will be shown

PSTN Trunk Setting				
[View Trunk] [Add Digital Trunk] [Add Analog Trunk] [Advanced Setting]				
<input type="checkbox"/> Trunk Name	Description	Interface Type	Channel	Edit
<input type="checkbox"/> trunk:dahdi:test	test	analog	1-4	
Page 1 : <input type="button" value="Delete Selected"/>				

Digital Trunk

Go to menu Voice Interface → PSTN Trunk Setting → Add Digital Trunk

PSTN Trunk Setting

[View Trunk] [Add Digital Trunk] [Add Analog Trunk] [Advanced Setting]

Dahdi Interface Setting	
Interface Type	digital
1) Interface Setup	
Channel Number	1 - 1
Channel Group	None
Trunk Name	
Description	
PRI switch type	euroisdn
PRI reset interval (ms)	
PRI Dialplan	unknown
PRI Local Dialplan	unknown
International Prefix	00
National Prefix	0
Local Prefix	
Private Prefix	
Unknown Prefix	
DID	Yes
Callingpres	Yes
Relax DTMF	Yes
Clock	<input type="radio"/> Master <input checked="" type="radio"/> Slave
Echo Cancel	Yes
Echo Cancel on Pure TDM	Yes
TX Gain	0.0
RX Gain	0.0
Record Incoming Calls	<input type="radio"/> Yes <input checked="" type="radio"/> No
Record Outgoing Calls	<input type="radio"/> Yes <input checked="" type="radio"/> No
Default Language	th
Caller ID Num	
Caller ID Name	
Additional Setting	
<input type="button" value="APPLY"/> <input type="button" value="Cancel"/>	

We have to assign these following:

- Channel Number: Assign this related with detected hardware, like sample, start from 1-15, 16 for D channel (signaling), and 17-31.
- Trunk Name: Input name of this trunk.
- Clock: If we generate clock, select “Master”, otherwise select “Slave”.

To perform this menu completely we have to add 1-15 as beginning, then click “APPLY”, and select “Add Digital Trunk” again to add channel 17-31, like this example.

PSTN Trunk Setting

[View Trunk] [Add Digital Trunk] [Add Analog Trunk] [Advanced Setting]

Dahdi Interface Setting



Interface Type	digital		
1) Interface Setup	Channel Number	17 ▼	- 31 ▼
	Channel Group	None ▼	
	Trunk Name	trunk:dahdi:Trunk_E1 ▼	
<input type="button" value="APPLY"/> <input type="button" value="Cancel"/>			

When adding complete, the following screen will be shown.

PSTN Trunk Setting

[View Trunk] [Add Digital Trunk] [Add Analog Trunk] [Advanced Setting]

Page 1 ▼

<input type="checkbox"/> Trunk Name	Description	Interface Type	Channel	Edit
<input type="checkbox"/> trunk:dahdi:Trunk_E1		digital	1-15 17-31	 

This table present configured value assigned from service provider in Thailand.

	PRI Dialplan	PRI Local Dialplan	International Prefix	National Prefix	Relax DTMF
TOT	unknown	unknown	00	0	Yes
True	unknown	unknown	00	0	Yes

Next , Go to menu Outgoing Call → Add New Outgoing Call.

OutGoing Call

[[View Outgoing](#)] [[Add New Out Going Call](#)]

Outgoing Route Information

Route Name	<input type="text"/>
Route Description	<input type="text"/>
Route Password	<input type="text"/>

Time Based Call Routing

Default Route

☒ Enable
 Trunk:
 Default Outgoing Number:
 Dialing Prefix:
 Digit to Strip:
 Dialing Option:

First Schedule

Enable Schedule ☐ Yes ☒ No
 Time

Trunk:
 Default Outgoing Number:
 Dialing Prefix:
 Digit to Strip:
 Dialing Option:

Second Schedule

Enable Schedule ☐ Yes ☒ No
 Time

Trunk:
 Default Outgoing Number:
 Dialing Prefix:
 Digit to Strip:
 Dialing Option:

Call Patterns

Call Prefix	<input type="text"/>
Destination Pattern	<input type="text"/>
Destination Pattern2(optional)	<input type="text"/>
Destination Pattern3(optional)	<input type="text"/>
Dial Timeout	<input type="text" value="40"/>
Concurrent Call Limit for this trunk	<input type="text" value="100"/>
Strict Time Routing	<input type="text" value="No"/>
Support DID With This Route	<input type="text" value="No"/>

Outgoing Route Information:

Route Name: Input name for this routing here.

Route Password: If we assign password here, everytime when dial out, the system will ask this password for authentication.

Route Description: Input description to make the other understand.

Time Base Call routing:

This feature means call routing that related with scheduling. This feature will be applied if we use gsm gateway like a trunk, while we can program call routing priority to match with service provider 's promotion, like if we have call free promotion for 8 am to 5 pm, we can program that this trunk will be first priority to save cost of the company.

In the beginning, we have to assign "Default Route", in this terms mean assign available trunk that will be applied when other trunks can not used.

Add: Select trunk then click this button.

Trunk: In this drop down menu show all defined trunk in the system, we have to select sequentially.




Default Outgoing Number: This value is used only in E1 system, to specific outgoing callerid as default, if any extension has no own out going caller id, the system will apply this value.

Dialing Prefix: Call prefix which this number will not be actually sent out.

Digit to strip: Number of digit to strip that related with prefix

Example of create "Default Route" after press "Add".

Default Route

Enable	No.	Trunk / Group	Default Outgoing Number	Dialing Prefix	Digit to Strip	dialing_option	
<input checked="" type="checkbox"/>	1	trunk%%dahdi%%test				T	  

☒ Enable
 Trunk:
 Default Outgoing Number:
 Dialing Prefix:
 Digit to Strip:
 Dialing Option:

First Schedule, Second Schedule:

All values here same as default route, these following have been added

Enable Schedule: Select "yes" to apply this schedule.

Time: Click at drop down list, created schedule will be shown, if there is no created schedule, we have to create at menu "Schedule"(Topic 4.1 in this manual).

If there is some created schedule, the screen will appear like this example/.

First Schedule

Enable Schedule ☒ Yes ☐ No

Time

Other parts we input same as Default route, and the next example is the sample screen when press “Add”.

First Schedule

Enable Schedule ☒ Yes ☐ No

Time

Enable	No.	Trunk / Group	Default Outgoing Number	Dialing Prefix	Digit to Strip	dialing_option
<input checked="" type="checkbox"/>	1	trunk%%dahdi%%test				T

Trunk: Default Outgoing Number: Dialing Prefix: Digit to Strip: Dialing Option:

Call Pattern: The following picture present call pattern setting which some value shown here is the default value.

Call Patterns

Call Prefix

Destination Pattern

Destination Pattern2(optional)

Destination Pattern3(optional)

Dial Timeout

Concurrent Call Limit for this trunk

Strict Time Routing

Support DID With This Route

Call Prefix: Define prefix of this outgoing rule. Example like press 9 to call PSTN, press 8 to call international.

Destination Pattern: Define destination pattern.

Destination Pattern2: Second destination pattern.

Destination Pattern3: Third destination pattern.

Dial Timeout: Unit of time in second, if timeout, system will be terminated.

Concurrent Call Limit for this trunk: Define allow maximum concurrent call for this trunk.

Strict Time Routing: If select “yes”, means there are setting First schedule and Second Schedule.

Support DID with this route: Select “yes” if this trunk need DID to call out. (E1 only)

Example of create Outgoing Call

OutGoing Call

[[View Outgoing](#)] [[Add New Out Going Call](#)]

Outgoing Route Information

Route Name	<input type="text" value="pstn"/>
Route Description	<input type="text"/>
Route Password	<input type="text"/>

Time Based Call Routing

Default Route

Enable	No.	Trunk / Group	Default Outgoing Number	Dialing Prefix	Digit to Strip	dialing_option
<input checked="" type="checkbox"/>	1	trunk%%dahdi%%test				T

[Add](#)
☒ Enable
 Trunk:
 Default Outgoing Number:
 Dialing Prefix:
 Digit to Strip:
 Dialing Option:

First Schedule

Enable Schedule ☐ Yes ☒ No

Time

Enable	No.	Trunk / Group	Default Outgoing Number	Dialing Prefix	Digit to Strip	dialing_option

[Add](#)
Trunk:
 Default Outgoing Number:
 Dialing Prefix:
 Digit to Strip:
 Dialing Option:

Second Schedule

Enable Schedule ☐ Yes ☒ No

Time

Enable	No.	Trunk / Group	Default Outgoing Number	Dialing Prefix	Digit to Strip	dialing_option

[Add](#)
Trunk:
 Default Outgoing Number:
 Dialing Prefix:
 Digit to Strip:
 Dialing Option:

Call Patterns

Call Prefix	<input type="text"/>
Destination Pattern	<input type="text" value="1x"/>
Destination Pattern2(optional)	<input type="text"/>
Destination Pattern3(optional)	<input type="text"/>
Dial Timeout	<input type="text" value="40"/>
Concurrent Call Limit for this trunk	<input type="text" value="100"/>
Strict Time Routing	<input type="text" value="no"/>
Support DID With This Route	<input type="text" value="no"/>

[APPLY](#)

2.3 SIP Trunk Setting Go to menu **Voice Interface -> Sip Trunk Setting**, this menu is used for configure sip trunk like voip service provider, while we have to apply for any account from any service provider, and bring given information to apply here, like Username, Password, IP-Address (or domain name).

SIP Trunk Setting

[View Trunk] [Add SIP Trunk]

SIP Trunk Setting

[View Trunk] [Add SIP Trunk]

SIP Trunk Setting

Trunk Name

Description

Type

Sip Server Address

Tel Number/Username

Password

Allow Incoming

Concurrent Call Support

Optional: Number of digit to strip

Optional: Dialing Prefix

Record Incoming Calls ☐ Yes ☒ No

Record Outgoing Calls ☐ Yes ☒ No

Default Language

Advanced Setting

APPLY Cancel

All parameter can be explained like these following

Trunk Name: Define trunk name here.

Description: Input description of this trunk

Type: 2 type of provider.

- 1.Sip Account: Given Username, Password
- 2.Sip Trunk: Username and password is no need.

Sip Server Address: Input IP-Address or domain name.

Tel Number/Username: Input given Tel Number/Username from service provider.

Password: Input given password from service provider

Allow Incoming: If select “yes”, it means allow incoming call for this trunk, but normally service provider in Thailand will not allow incoming call except Cat 2 Call Plus, CAT telecom’s service.

Concurrent Call Support: Number of concurrent call for this trunk, normally 1 concurrent / 1 account.

Optional Number of digit to strip: Number of digit to strip related with each service provider.

Optional Dialing Prefix: Prefix number related with each service provider.

Record Incoming Call: If select “yes”, all incoming line will be recorded, and we can check recorded file at menu Sound → Call Record Files.

Record Outgoing Call: If select “yes”, all outgoing line will be recorded, and we can check recorded file at menu Sound → Call Record Files

Default Language: Input default language for this trunk

When we complete all values, click Save, then we have to create Outgoing Call and also set call control same as we have done in PSTN setting.

2.4 Gateway

2.4.1 GSM Gateway Integration This part is GSM gateway setting, we will separate into 2 parts:

- **PLEXTEL-EE part**
- **GSM-SIP-Gateway part**

(PLEXTEL-EE part)

PART 1: Gateway Setting

Go to menu Voice Interface → Gateway

Gateway

[[View Gateway](#)] [[Add Gateway](#)]

Display 1 - 1 from 1 20 ▼

<input type="checkbox"/>	Name	Number	IP-Addresss	Extension Monitor	Record IN	Record OUT	Edit
<input type="checkbox"/>	test_sys	4000	Dynamic	No	N	N	

Page 1 : [Delete Selected](#) [Cancel](#)

In this menu, we will create extension for gateway to register with Pexitel.

Gateway

[[View Gateway](#)] [[Add Gateway](#)]

Name	<input type="text"/>
Number / Account	<input type="text"/>
Default Language	English ▾
Password	<input type="text"/>
IP-Address	dynamic ▾
Codec	<input checked="" type="checkbox"/> G.711u <input checked="" type="checkbox"/> G.711a <input type="checkbox"/> GSM <input type="checkbox"/> G.729 <input type="checkbox"/> G.723.1 <input type="checkbox"/> iLBC <input type="checkbox"/> Speex <input type="checkbox"/> lpc10 <input type="checkbox"/> adpcm <input type="checkbox"/> G.726
dtmf mode	rfc2833 ▾
Extension Monitor	no ▾
Concurrent Call Support	1
Enable REINVITE	default ▾
NAT Support	default ▾
CallerID Number	<input type="text"/>
CallerID Name	<input type="text"/>
Record Incoming Calls	<input type="radio"/> Yes <input checked="" type="radio"/> No
Record Outgoing Calls	<input type="radio"/> Yes <input checked="" type="radio"/> No
<input type="button" value="APPLY"/> <input type="button" value="Cancel"/>	

1. Name: Input trunk name related with Pexitel.
2. Number/Account: Input a Number or Account with can not same as defined extension in Pexitel.
3. Default Language: Input default language for this trunk.
4. Password: Define password which gateway have to use this password to register.
5. IP-Address: Input IP-Address of gateway, normally we set to be "dynamic".
6. Codec: Define codec type.
7. dtmf mode: Define dtmf mode used for this gateway.
8. Concurrent Call support: Input maximum call support, which depends on number of ports of this gateway. Example: we use gateway with 4 FXO, so this value will be 4.
9. Enable Reinvite: Define packet type to be Reinvite.
10. NAT Support: If this device is working behide NAT, we have to set NAT=yes.
11. CallerID: Set caller id to be default value.
12. Record Incoming Calls: Allow recording incoming call.
13. Record Outgoing Calls: Allow recording outgoing call.


PART 2: INCOMING CALL

This part is setting incoming call for gateway, everything same as setting PSTN, but for gateway setting we have to input DID as the following example.

Incoming Call

[\[View Incoming Call \]](#) [\[Add New Incoming Call \]](#)

Display 1 - 5 from 5

<input type="checkbox"/>	Trunk	Destination	DID	Description	Edit
<input type="checkbox"/>	gateway:sip:test_sys	0 time ivr	111	202	

This example show setting gateway account as no.201 and trunk name is “test”.

Incoming Call

[\[View Incoming Call \]](#) [\[Add New Incoming Call \]](#)

Add Incoming Call

Trunk: gateway:sip:test_sys ☐ PABX-link

Description:

Support DID: yes

Incoming DID: 202

Replace CallerID:

Extensions Ring Timeout(sec): 40

Actions

When*: time Destination*: IVR

Value: 111

We have to set Support DID = yes and Incoming DID should not same with account of gateway like 202, while 202 will be set in gateway to send incoming call from gateway to PLEXTEL.

PART 3: CALLOUT WITH GATEWAY

Go to menu OutGoing Call

OutGoing Call

[[View Outgoing](#)] [[Add New Out Going Call](#)]

Display 1 - 1 from 1

<input type="checkbox"/>	Route Name	Descriptions	Call Prefix	Call Pattern	Schedule	Enable	Edit
<input type="checkbox"/>	<u>gateway</u>			2xxx	Default First / time Second / time	Default no no	

Page 1 :

Delete Selected

We have to add gateway as trunk, then we call out from this gateway.

Time Based Call Routing

Default Route

No.	Trunk / Group	Default Outgoing Number	Dialing Prefix	Digit to Strip	Delete
1	gateway%%sip%%test				<input type="button" value="Del"/>

Add Trunk: Default Outgoing Number: Dialing Prefix: Digit to Strip:

(GSM-SIP-Gateway part)

PART 1: SIP Setting

Route

Mobile

Network

SIP Settings

Service Domain

Codec Settings

Codec ID Setting

DTMF Setting

RPort Setting

SIP Responses

Other Settings

NAT Transform

Update

Service Domain Settings

Mobile 1

Realm 1 (Default)	
Active:	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Display Name:	<input type="text" value="201"/>
User Name:	<input type="text" value="201"/>
Register Name:	<input type="text" value="201"/>
Register Password:	<input type="password" value="...."/>
Domain Server:	<input type="text" value="192.168.0.140"/>
Proxy Server:	<input type="text" value="192.168.0.140"/>
Outbound Proxy:	<input type="text" value="192.168.0.140"/>
Status:	Registered

Go to menu “SIP Setting →Service Domain”, and see previous example which it is setting SIP Account for SIP Gateway. Anyway all values here have to match with we have set in PART1.

Each value can be explained like these following:

Display Name/ User Name/ Register Name: Input Account no. which we have set in PLEXTEL.

Password: Input password which we have set in PLEXTEL.

Domain Server/ Proxy Server/ Outbound Proxy : Input PLEXTEL 's IP-Address.

When finish all, we have to SAVE and REBOOT everytime.

PART 2: CALLING GSM FROM PLEXTEL

LAN To Mobile Table

Mobile 1, 2 ▾

Page: 1 ▾

Item	URL	Call Num	Select
0	192.168.0.140	#	<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Delete Selected

Delete All

Reset

Go to menu "Route -> LAN To Mobile Table"

Input the following values:

Position = 0

URL = "IP-Address of PLEXTEL IP-PBX"

Callnum = #

PART 3: RECEIVING CALL FROM GSM Mobile To LAN Table

Mobile 1, 2 ▼

Page: 1 ▼

Item	CID	URL	Select
0	*	202	<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

Delete Selected

Delete All

reset

Add New

Position: (0~49)
 CID: Ex:09111111111, 0911*, *
 URL: Ex:192.168.0.1, *:2St

Add

reset

Go to menu **Route -> Mobile to LAN**

Input these following values:

Position = 0

CID = *

URL= "Input number from PLEXTel PART 2, like following screen"

Add Incoming Call

Trunk	gateway:sip:test_sys ▼	<input type="checkbox"/> PABX-link
Description	<input type="text"/>	
Support DID	yes ▼	
Incoming DID	202	
Replace CallerID	<input type="text"/>	
Extensions Ring Timeout(sec)	40 ▼	

2.4.2 Setting Gateway to work with Soundwin

Create Gateway like previous part (GSM Gateway).

Gateway

[View Gateway] [Add Gateway]

Name	3000
Number / Account	3000
Default Language	English
Password	****
IP-Address	dynamic
Codec	<input checked="" type="checkbox"/> G.711u <input checked="" type="checkbox"/> G.711a <input type="checkbox"/> GSM <input type="checkbox"/> G.729 <input type="checkbox"/> G.723.1 <input type="checkbox"/> iLBC <input type="checkbox"/> Speex <input type="checkbox"/> lpc10 <input type="checkbox"/> adpcm <input type="checkbox"/> G.726
dtmf mode	rfc2833
Extension Monitor	no
Concurrent Call Support	1
Enable REINVITE	default
NAT Support	default
CallerID Number	3000
CallerID Name	3000
Record Incoming Calls	<input type="radio"/> Yes <input checked="" type="radio"/> No
Record Outgoing Calls	<input type="radio"/> Yes <input checked="" type="radio"/> No

APPLY Cancel

Then we got like following example.

Gateway

[View Gateway] [Add Gateway]

Page 1

Name	Number	IP-Address	Extension Monitor	Record IN	Record OUT	Edit
3000	3000	Dynamic	No	N	N	

Delete Selected Cancel

Then we log on Soundwin, and go to menu Advanced → VoIP Basic, and make registration with PLEXTel 's assigned number like these following:

VoIP Protocol Setting: Select protocol type as SIP.

No. : Input port number.

Number: Input extension or gateway no.

Account: Input defined account number.

Password: Input defined password number.

SIP Proxy Setting: Input IP of SIP server like following example:

VoIP Protocol Setting SIP

Port Number / Password Setting(MAX 25 digit) :

No.	Number	Account	Password
1	3000	3000
2			

Use Public Account (PORT 1) ☐ Enable ☒ Disable

SIP Hunting Table :

No.	Hunting Member
1	<input checked="" type="checkbox"/> Port 1 <input type="checkbox"/> Port 2
2	<input type="checkbox"/> Port 1 <input checked="" type="checkbox"/> Port 2

SIP Proxy Setting :

Domain/Realm	192.168.0.130
SIP Proxy Server	192.168.0.130/5060
	<input type="checkbox"/> use Net2Phone Service
Register Interval (seconds)	900
SIP Authentication	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Outbound Proxy Server	192.168.0.130/5060

NAT Pass Setting:

NAT Pass Method	<input type="radio"/> STUN <input checked="" type="radio"/> Symmetric RTP
STUN Server IP Address	64.69.76.21
STUN Server port	3478
NAT IP Address	0.0.0.0

Local Setting:

Local SIP Port	5060
----------------	------

Click Apply, select Register and Apply again, then save configuration and reboot.
If register success, the screen will show like this example:

VoIP Protocol Setting SIP

Port Number / Password Setting(MAX 25 digit) :

No.	Number	Reg	Account	Password	Register Status	Reason
1	3000	<input checked="" type="checkbox"/>	3000	Success	OK
2		<input type="checkbox"/>				

Setting Hotline for mapping with DID in incoming call of PLEXTEL IP-PBX.

Hotline Delay	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Hotline Delay Time(Max. 20 sec)	3 sec
Port 1 number	1111
Port 2 number	None

In this example, defined number is 1111 which have to map with menu “Incoming Call” in PLEXTEL, then we input DID to map with Hotline no. in Soundwin.

Incoming Call

[View Incoming Call] [Add New Incoming Call]

Add Incoming Call

Trunk	gateway:sip:3000	<input type="checkbox"/> PABX-link
Description		
Support DID	yes	
Incoming DID	1111	
Replace CallerID		
Extensions Ring Timeout(sec)	40	
Enable CallerID-Based Routing Service	No	

[Add time based handler](#)

Actions		
When *	All_Time	Destination* Group
Value	Default:Default:Default	
Remove		

This example, we discuss on Trunk that receive incoming from “gateway:sip:3000”, have DID as 1111, and perform assigned action.

In term of Outgoing, we create like normal outgoing, while we add trunk to be gateway trunk.

2.5 Site-to-Site Setup This part we will discuss how to create trunking between 2 sites by using PLEXTEL IP-PBX, while we can select protocol between IAX and SIP

Site to Site Setup

[View Site] [Site to Site Setup] [Site-to-Site (SIP)]

1. IAX Site to Site
2. SIP Site to Site

This screen show site-to-site setup screen.

Site to Site Setup

[View Site] [Site to Site Setup] [Site-to-Site (SIP)]

Add IAX2 Trunk	
Trunk Name	<input type="text"/>
Remote IP Address	Dynamic ▾
Remote Password	<input type="text"/>
Local Password	<input type="text"/>
Codec Used	<input checked="" type="checkbox"/> G.711u <input checked="" type="checkbox"/> G.711a <input checked="" type="checkbox"/> GSM <input checked="" type="checkbox"/> G.729 <input checked="" type="checkbox"/> G.723.1 <input checked="" type="checkbox"/> iLBC <input checked="" type="checkbox"/> Speex <input checked="" type="checkbox"/> lpc10 <input checked="" type="checkbox"/> adpcm <input checked="" type="checkbox"/> G.726
Destination Pattern	Dialing Prefix: <input type="text"/> Pattern: <input type="text"/> Number of digit(s) to strip: <input type="text"/>
Destination Pattern2 (Optional)	Dialing Prefix: <input type="text"/> Pattern: <input type="text"/> Number of digit(s) to strip: <input type="text"/>
Destination Pattern3 (Optional)	Dialing Prefix: <input type="text"/> Pattern: <input type="text"/> Number of digit(s) to strip: <input type="text"/>
Destination Pattern4 (Optional)	Dialing Prefix: <input type="text"/> Pattern: <input type="text"/> Number of digit(s) to strip: <input type="text"/>
Destination Pattern5 (Optional)	Dialing Prefix: <input type="text"/> Pattern: <input type="text"/> Number of digit(s) to strip: <input type="text"/>
<input type="button" value="APPLY"/> <input type="button" value="Cancel"/>	

- Trunk Name: Input trunk name.
- Remote IP Address: Destination IP-Address, normally we use "Static", and define its IP.
- Remote Password: Input password for remoted site.
- Local Password: Input password for registration from another site.
- Codec Used: Select codec type.
- Destination Pattern: Define call out destination pattern.
- Dialing Prefix: Input prefix no.
- Pattern: Input pattern.
- Number of digit(s) to strip: Input no. of digit to strip.

When we have done both sites, the following screen will be shown.

Site to Site Setup

[\[View Site \]](#) [\[Site to Site Setup \]](#) [\[Site-to-Site \(SIP\) \]](#)

Display **1 - 1** from **1**

<input type="checkbox"/>	Trunk Name	Remote IP Address	Destination Pattern	Codec	Edit
<input type="checkbox"/>	test_site	static (192.168.0.100)	1 2xxx 1	G.711a,G.711u,Speex,GSM,iLBC,G.729,G.723.1,adpcm,lpc10	

Page **1** :

[Delete Selected](#) [Cancel](#)

We can check registration status at menu “Phone Connection Status”.

Phone's Connection Status

SIP

No	Number	Name (Callerid)	IPaddress	Natsupport	VideoSupport	Status	Type
1	4000		-none-	no	no	Unmonitored	SIP
2	trunk%%sip%%asdf		0.0.83.97	yes	no	Unmonitored	SIP
3	3004	3004	-none-	no	no	UNKNOWN	SIP
4	3003	3003	-none-	no	no	UNKNOWN	SIP
5	3002	3002	-none-	no	no	UNKNOWN	SIP
6	3001	3001	-none-	no	no	UNKNOWN	SIP
7	3000	3000	-none-	no	no	UNKNOWN	SIP
8	1144	1144	-none-	no	no	UNKNOWN	SIP
9	1119	1119	-none-	no	no	UNKNOWN	SIP
10	1010	1010	-none-	no	no	UNKNOWN	SIP
11	1009	1009	192.168.0.190	no	no	OK (58 ms)	SIP
12	1008	1008	-none-	no	no	UNKNOWN	SIP
13	1007	1007	-none-	no	no	UNKNOWN	SIP
14	1006	1006	-none-	no	no	UNKNOWN	SIP
15	1005	1005	-none-	no	no	UNKNOWN	SIP
16	1004	1004	192.168.0.184	no	no	OK (113 ms)	SIP
17	1003	1003	-none-	no	no	UNKNOWN	SIP
18	1002	1002	-none-	no	no	UNKNOWN	SIP
19	1001	two	-none-	no	no	UNKNOWN	SIP
20	1000	on Thousand	-none-	yes	no	UNKNOWN	SIP

IAX

No	Number	Name (Callerid)	IPaddress	Natsupport	VideoSupport	Status	Type
1	server_test_sit		192.168.0.100			(T)OK(1ms)	IAX2
2	8000	8000	(Unspecified)			UNKNOWN	IAX2
3	2000	Mr. TTwo Thoudsand	(Unspecified)			UNKNOWN	IAX2
4	FaxDSP2/FaxDSP2		127.0.0.1			OK	IAX2
5	FaxDSP1/FaxDSP1		127.0.0.1			OK	IAX2


Chapter 3 System Features

3.1.Conference

Go to ment Call Features →Conference, the following screen will be shown

Conferences Manager

[[View Conferences](#)] [[Add New Conference Room](#)]

<input type="checkbox"/>	Conference Room	Room Password	Admin Password	Record	Leader	Edit
<input type="checkbox"/>	600			No	No	

Page1 :

[Delete Selected](#)

[Cancel](#)

Select “Add new Conference”, the following screen will be shown

Conferences Manager

[[View Conferences](#)] [[Add New Conference Room](#)]

Room Number	<input type="text"/>
Conference Password	<input type="text"/>
Conference Admin Password	<input type="text"/>
Custom Voice Greeting for this room	None ▾
Enable User Based Conference	No ▾
Record This Conference Room	No ▾
Disable All Announcement (MUTE ALL)	No ▾
Disable Announcement For Single User In Room	No ▾
Announce User Count when Join Conference	Yes ▾
Announce User Join/Leave	No ▾
Enable Voice Menu mode	Yes ▾
Enable logoff from conference using # key	Yes ▾
Enable MusicOnHold for Single User login	Yes ▾ Default ▾
Enable Monitor Mode (# prefix)	No ▾
Enable Leader Mode	No ▾
Conference Leader Dialing Number	<input type="text"/>
Close the conference when Leader exit	No ▾
Run Custom Menu (1 digits)	No ▾

APPLY
Cancel

All parameter can be explain as following:

- Room Number: Input room number
- Conference Password: Input password for this room.
- Conference Admin Password: Input password for admin.
- Custom Voice Greeting for this room : Select greeting voice for this room.
- Enable User Based Conference: Define user and password for participant.
- Record this conference room: If select "yes", all conversation will be recored, and we can check recorded file at menu Sounds -> Call Record Files (conf).
- Disable all announcement (MUTE ALL): If select "yes", all announcement will be closed.
- Disable Announcement for Single User in room: If select "yes", the system will close announcement when first participant enter this room.
- Announce User Count when Join Conference: If select "yes", system will announce number of participants for next entry person.
- Announce User Join/Leave: If select "WihtReview", system will ask joinging participant 's name and announce to the other.

- 45

This following screen present accept permission of conference room for only "Default" group.

[illegible]

APPLY

Extensions Group Outgoing Call Call Features Site-to-Site Queue IVR FAX

Next, we can test conference by using ip-phone and press 600 (created room), the system will ask password, if password has been defined, then the system will announce number of participants now.

If we would like to make conference with any person in outside system, we can call their mobile phone and transfer line to created room number, example like #1 600, while 600 is created room.

To monitor conference room, go to menu Report → Conference Status, the following screen will be shown.

The screenshot shows the 'Conference Status' interface. At the top, there is a dropdown menu for 'Conference Room Status' set to '600' (labeled 1). Below this are two buttons: 'Mute All' (labeled 2) and 'LOCK' (labeled 3). A table below shows the status of participants in the conference room. The table has columns: 'No.' (labeled 5), 'Kick', 'Users / CallerID' (labeled 6), 'Channel', 'Mute / Unmute' (labeled 4), and 'Status'. There are two rows of participants. The first row shows participant 1 with a 'Kick' button, 'Users / CallerID' '1001/two', 'Channel' 'SIP/1001-00000045', 'Mute' button, and 'Status' '(unmonitored)'. The second row shows participant 2 with a 'Kick' button, 'Users / CallerID' '1005/1005', 'Channel' 'SIP/1005-00000046', 'Mute' button, and 'Status' '(unmonitored)'.

No.	Kick	Users / CallerID	Channel	Mute / Unmute	Status
1	Kick	1001/two	SIP/1001-00000045	Mute	(unmonitored)
2	Kick	1005/1005	SIP/1005-00000046	Mute	(unmonitored)

This menu can be explained as following:

1. Select room that we want to monitor.
2. Mute All, when we want to mute all participant, this button status will change to red, and it will be green when we click to unmute.
3. LOCK, press when we need to block other users to join this room.
4. Mute, press if we want to mute this person.
5. Kick, press when we need to take off this person from this room.
6. Caller ID or name of each participant.

3.2. Feature Key / Call Parking

Go to menu Call Features → Feature Key & Call Parking, the following screen will be shown:

Features Code / System Setup

Call Center Code

Agent Login (permanent)	* ▾	9
Agent Callback Automatic Login/Logoff	* ▾	45
Agent CallBack Login	* ▾	40
Agent CallBack Logoff	* ▾	41
Pause Agent Prefix	* ▾	42
UnPause Agent Prefix	* ▾	43
Transfer to Agent Prefix		44
Whisper	* ▾	97
Private Whisper	* ▾	98
Channel Spy	* ▾	99

Password: 1234

Call Parking

Parking Number	700
Parking Position	701 - 720
Max Parking Time	120
Transfer digit timeout	3

Features Key Mapping

Features digit timeout(ms)	3000
Call Pickup	* ▾ 8
Extensions Pickup	* ▾ *
Blind Transfer	# ▾ 1
Attend Transfer	# ▾ 2
Disconnect	* ▾ 0
One Touch Record	* ▾ 3
Voicemail	100
Phone Lock	99
Roaming Station Register / Dial-Out Prefix	* ▾ **
Fax Prefix	▾ 33

Features Key Mapping

CUSTOM1	* ▾		Enable <input type="checkbox"/>
---------	-----	--	---------------------------------

APPLY Cancel

Restore Default

Call Parking: In this term, call parking means holding line from concurrent call for a while. In Plectel IP-PBX we have to transfer this line to no.700, and the system will automatically announce our number of parking status like 701, 702, if we want to pick up that line again, we will dial to announced number like 701, 702, related with define parking position.

Transfer Digit Time Out: Unit of time in second that allow users to press each digit for using this feature.

Feature Digit Timeout: Unit of time in millisecond that allow user to press for access any feature.

Call Pickup: In this term we can pick up incoming call by press *8, to pick up any extension existing in same group.

Normally, we have to set permission for each extension at extension menu.












Plextel System: Extension Manager

[View Extensions] [Add SIP Extension] [Add Multiple SIP] [Add IAX Extension] [Add Analog Extension] [View All, Add Follow-Me Extension]

Display 1 - 30 From 30
20

Page 1

Extension Import Browse... Data Import Extension Export

Number	Type	Group	Pickup Call From	BLFI/RO/RINT	Lang	AP	Phone Type	DID	Followme	Roaming	User Email	Vmail	FAX mailbox	Edit	
1000 : on Thousand	sip	Default:Default:Default		✓	✓	✓	Thai	x	none	-	x	nicrora@hotmail.com	✓	-	
1001 : two	sip	Default:Default:Default		✓	✓	✓	Thai	✓	snom360	✓	x		✓	✓	
1002 : 1002	sip	Default:Default:Default		x	✓	✓	Thai	x	none	-	x		✓	✓	
1003 : 1003	sip	Default:Default:Default		x	✓	✓	Thai	x	none	-	x		✓	✓	
1004 : 1004	sip	Default:Default:Default		✓	✓	✓	Thai	x	none	-	x		✓	-	
1005 : 1005	sip	Default:Default:Default:Default:Default:Default		x	✓	✓	Thai	x	none	-	x		✓	✓	
1006 : 1006	sip	Default:Default:Default		x	✓	✓	Thai	x	none	-	x		✓	✓	
1007 : 1007	sip	Default:Default:Default:Default:Default:Default		x	✓	✓	Thai	x	none	-	x		✓	✓	
1008 : 1008	sip	Default:Default:Default		x	✓	✓	Thai	x	none	-	x		✓	-	
1009 : 1009	sip	Default:Default:Default		x	✓	✓	Thai	✓	yealinkt28	-	x		✓	✓	
1010 : 1010	sip	Default:Default:Default		x	✓	✓	Thai	✓	yealinkt26	-	x		✓	-	

When click "Edit", we can check permission of this extension like this following example.

Call Features:

Ring Timeout

Pickup Call from

Record Incoming Calls ☒ Yes ☐ No

Record Outgoing Calls ☒ Yes ☐ No

Support Intercom ☐

Allow BARGE Call ☐

Default Language

Allow Roaming Station Feature

This previous picture we can observe that there are many group name form pick up group list, if we would like to select group, we can click mouse on that group.

This menu show how to set pickup call since we create extension.

Extension Manager

[\[View Extensions \]](#) [\[Add SIP Extension \]](#) [\[Add Multiple SIP \]](#) [\[Add IAX Extension \]](#) [\[Add Analog Extension \]](#) [\[View All, Add Follow Me Extension \]](#)

Edit SIP Extension

Phone Setting:

Group Name	Default:Default:Default
Phone Number	1001
Caller ID	two
Password	••••
Enable BLF	yes manual BLF num
Phone IP-Address	dynamic
Codec	<input checked="" type="checkbox"/> G.711u <input checked="" type="checkbox"/> G.711a <input type="checkbox"/> GSM <input type="checkbox"/> G.729 <input checked="" type="checkbox"/> G.723.1 <input type="checkbox"/> iLBC <input type="checkbox"/> Speex <input type="checkbox"/> lpc10 <input type="checkbox"/> adpcm <input type="checkbox"/> G.726
Video Codec	<input type="checkbox"/> H.261 <input type="checkbox"/> H.263 <input type="checkbox"/> H.263p <input type="checkbox"/> H.264
dtmf mode	rfc2833
Extension Monitor	yes
Concurrent Call Support	12
Enable REINVITE	default
NAT Support	default
Support T.38 FAX	default
SIP Additional Setting	

Dial Option:

<input checked="" type="checkbox"/>	Allow calling user to Transfer (T)
<input checked="" type="checkbox"/>	Allow called user to Transfer (t)
<input checked="" type="checkbox"/>	Allow calling user \"One Touch Record\" (W)
<input checked="" type="checkbox"/>	Allow called user \"One Touch Record\" (w)
<input type="radio"/>	Generate a ringing tone (r)
<input checked="" type="radio"/>	Provide Music on Hold (m)

Call Features:

Ring Timeout	30
Pickup Call from	Default:Default:Default poise:eng:test1234
Record Incoming Calls	<input checked="" type="radio"/> Yes <input type="radio"/> No
Record Outgoing Calls	<input checked="" type="radio"/> Yes <input type="radio"/> No
Support Intercom	<input type="checkbox"/>
Allow BARGE Call	<input type="checkbox"/>
Default Language	Thai
Allow Roaming Station Feature	No

This picture present this user can pick up only extension in same group.

- **Extensions Pickup:** Pickup Call by press specific destination number by pressing * * follow by extension. Ex: ** 1002, **1003.

Blind Transfer is a transfer when the person receiving a call transfers the caller to another person without telling the that person anything about the caller or why they are calling. This is usually very frustrating to the caller as they have to introduce themselves and explain why the are calling again. If the no person receive that transfer call, that call will be sent back to the person receiving a call. We can press *1 to send blind transfer code before sending the call to destination number.

Attend Transfer is a transfer when the person receiving a call transfers the caller to another person and telling the that person anything about the caller or why they are calling before transfer to them. We can press *2 to send blind transfer code before sending the call to destination number. If the persons whom you transfer to, receives a call, you can hang up. But if they don't, you can press * to pick that call back to have a conversation.

Disconnect when you want to cut your line off while having the conversation, you can press *0 during the conversation time.

One Touch Record You can record voice of talker while you're talking. You can press *3 to automatic recording and you can bring that file to play later at menu *Sounds -> Call record File*

Voicemail you can set the number to go to listen your voicemail by press on your phone. The number is 100, when you call 100, it asks your password before you listen your voicemail. Make sure that you've created mailbox already. You can check it at Extension menu.

	Number	Type	Group	Pickup Call From	BLFI	RO	RINT	Lang	AP	Phone Type	DID	Followme	Roaming	User Email	Vmail	FAX mailbox	Edit
<input type="checkbox"/>	1000 : on Thousand	sip	Default:Default:Default		✓	✓	✓	x	Thai	x	none	-	x	nicrora@hotmail.com	✓	-	
<input type="checkbox"/>	1001 : two	sip	Default:Default:Default		✓	✓	✓	x	Thai	✓	snom360	✓	x		✓	✓	
<input type="checkbox"/>	1002 : 1002	sip	Default:Default:Default		x	✓	✓	x	Thai	x	none	-	x		✓	✓	
<input type="checkbox"/>	1003 : 1003	sip	Default:Default:Default		x	✓	✓	x	Thai	x	none	-	x		✓	✓	
<input type="checkbox"/>	1004 : 1004	sip	Default:Default:Default		✓	✓	✓	x	Thai	x	none	-	x		✓	-	
<input type="checkbox"/>	1005 : 1005	sip	Default:Default:Default:Default:Default:Default		x	✓	✓	x	Thai	x	none	-	x		✓	✓	

As the above picture, number 1003 has set mailbox, you can listen your voicemail. But if the mailbox has not set, you can edit or create the new one following this below example

Mailbox:User Email Address :

Enable Message Center User Login : Yes ▾

Voice Mailbox :

Enable Voicemail Box : Enabled ▾

Send Voice Message To Email : ☐ Yes ☒ NoVoice Mailbox Description : Voicemail Password (fix) : Voice Mailbox Size (messages) : **Fax Mailbox**

Enable Fax Mailbox : No ▾

Send Fax Message Notification To Email : Yes ▾

Attached Fax File To Notification Email : Yes ▾

Send Voicemail Notification For Incoming Fax : Yes ▾

Fax Mailbox Size : 20 ▾

This picture show the part of configuration about the extension that you can set voicemail configuration . This part has not shown if you don't be enable mailbox.

Phone Lock You can lock your phone automatic by refer to your mailbox password for each phone. When user is not at his/her seat, it can protect another person use his/her phone. You can press 99 to lock your phone. Then system will ask your password. After you send the correct password, you can choose between press 1 to lock your phone and press 2 to unlock. After you hang up. System will be set the phone as you choose.

Whisper you can join to talk with someone that is talking with another person but the person who call from external line will not hear. Only the internal line can hear. It can help an agent who cannot answer the customer's question. You can press *97 and the destination number that you want to join that call. For example, number 1002 is talking with the customer, you'll press *97 1002 to join and advice agent.

Private Whisper you can join to advice and tell something to agent only, but the person who use internal line cannot reply to you. You can press *98 and the destination number. For example, number 1004 is talking with the customer. You want to tell something to number 1004. Then you press *98 1004 and tell him/her. Number 1004 will hear you, but customer doesn't.


Channel Spy You can listen another person talks without the speaker's knowledge. You can press *99 and destination number. Then system will ask you the password following the below picture.

- **Agent Login Number** this feature is to be enable agent that I set on menu *Call Features -> Agent*

Roaming Station Register/ Dial-out Roaming is a general term referring to the extension of connectivity service in a location that is different from the home location where the service was registered. For example, your phone number is 1001 but you must move to another place that has the phone with number 1002. You can roam your number (1001) to

this place (1002) by using the feature. You can press * ** and your phone number (in this case is 1001). When it has call to number 1001, it'll ring on phone number 1002












Before you use roaming station register/Dial-out, you must set permission to be roaming in extension menu. And Edit the number that you allow to use roaming feature following this below picture.

Plextel System: 

Extension Manager
[View Extensions] [Add SIP Extension] [Add Multiple SIP] [Add IAX Extension] [Add Analog Extension] [View All, Add Follow-Me Extension]

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Page 1

Extension Import Browse... Data Import Extension Export

Number	Type	Group	Pickup Call From	BLFI/RO/R	INT	Lang	AP	Phone Type	DID	Followme	Roaming	User Email	Vmail	FAX mailbox	Edit
1000 : on Thousand	sip	Default:Default:Default		✓	✓	✓	Thai	x	none	-	x	nicrora@hotmail.com	✓	-	
1001 : two	sip	Default:Default:Default		✓	✓	✓	Thai	✓	snom360	✓	x		✓	✓	
1002 : 1002	sip	Default:Default:Default		x	✓	✓	Thai	x	none	-	x		✓	✓	
1003 : 1003	sip	Default:Default:Default		x	✓	✓	Thai	x	none	-	x		✓	✓	
1004 : 1004	sip	Default:Default:Default		✓	✓	✓	Thai	x	none	-	x		✓	-	
1005 : 1005	sip	Default:Default:Default:Default:Default		✓	✓	✓	Thai	x	none	-	x		✓	✓	
1006 : 1006	sip	Default:Default:Default		x	✓	✓	Thai	x	none	-	x		✓	✓	
1007 : 1007	sip	Default:Default:Default:Default:Default		x	✓	✓	Thai	x	none	-	x		✓	✓	
1008 : 1008	sip	Default:Default:Default		x	✓	✓	Thai	x	none	-	x		✓	-	
1009 : 1009	sip	Default:Default:Default		x	✓	✓	Thai	✓	yealinkt28	-	x		✓	✓	
1010 : 1010	sip	Default:Default:Default		x	✓	✓	Thai	✓	yealinkt26	-	x		✓	-	

Choose yes @ allow roaming station feature

Call Features:

Ring Timeout 30

Pickup Call from Default:Default:Default
poise:eng:test1234

Record Incoming Calls ☒ Yes ☐ No

Record Outgoing Calls ☒ Yes ☐ No

Support Intercom ☐

Allow BARGE Call ☐

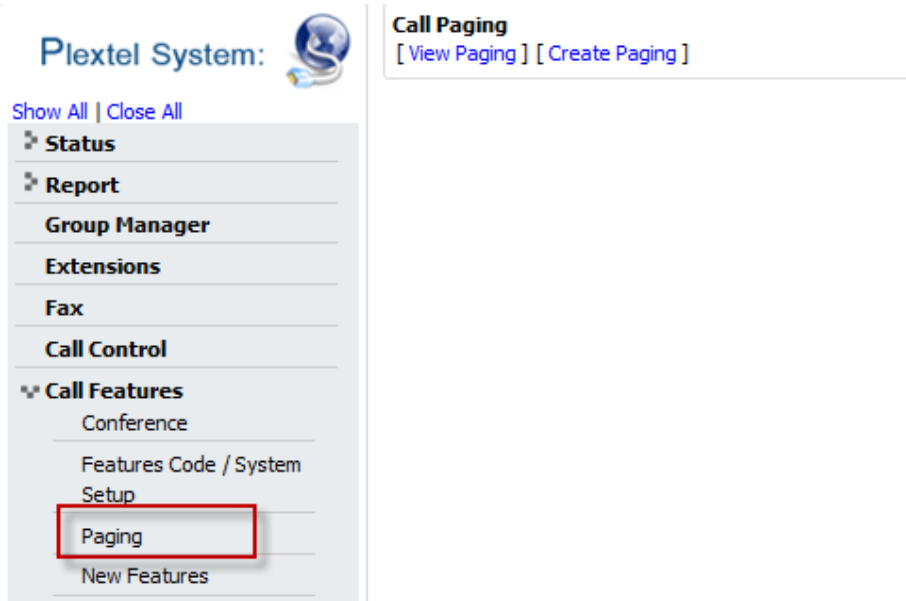
Default Language Thai

Allow Roaming Station Feature **Yes**

3.3. Paging

Paging is the one feature on Plextel System, that is a group of intercommunication. It call one number that set on paging. Then caller can call to that number to talk with other member in paging group

You can create paging number at menu *Call Features -> paging* as the below picture.



Next, go to *Create Paging* tab. You'll see this part.

Call Paging
[\[View Paging \]](#) [\[Create Paging \]](#)
Add Paging

Paging Number

Phone Members (add Multiple)

Select Phone

Then you set number to use paging and select the extensions that want to be a member in paging

Call Paging
[\[View Paging \]](#) [\[Create Paging \]](#)
Add Paging

Paging Number

Phone Members (add Multiple)

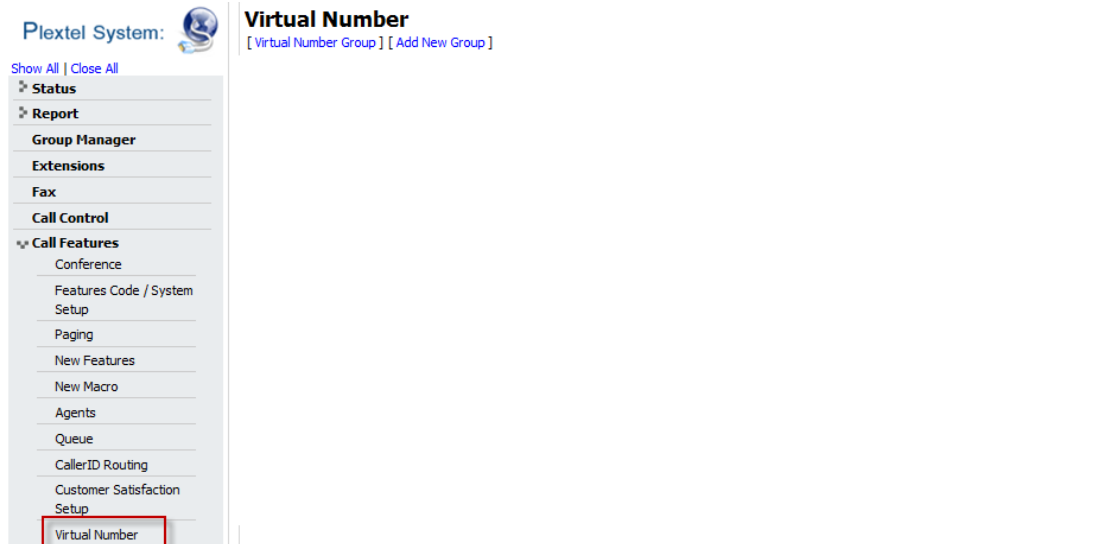
Select Phone

After you add member finish, you'll see paging member list as the example below.

3.4 Virtual Number

Virtual number is the number that is created to use in other features easily. You can create the virtual numbers as much as you want. And the virtual number must not be same as the existed number.

You can create a virtual number in menu *Call feature -> virtual number* as picture is below.



Then you create group of virtual number to set permission at Call Control menu

Virtual Number
[\[Virtual Number Group \]](#) [\[Add New Group \]](#)

Group Name :

Virtual Number
[\[Virtual Number Group \]](#) [\[Add New Group \]](#)

Group Name : [\[del\]](#)

Virtual Number	Priority	What to Do	Value	edit	delete
<input type="button" value="Add"/>					

The below picture shows permission status of group's user that can use this virtual number group

Group Name	Default	Default	Default	Default	Default	Default	Default	Default	Default	Default	Default	Default	Default	Default	Default	Default	Default	Default	Default	Default
All Group	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Default:Default:Default	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
poise:eng:test1234	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
test_site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
xxx(SIP)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
dsdsd(SIP)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
hello_world	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
testttt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
111	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
aaa	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Page 1:

☐ Extensions Group
 ☐ Outgoing Call
 ☐ Call Features
 ☐ Site-to-Site
 ☐ Queue
 ☐ IVR
 ☐ FAX

Virtual Phone Number - Windows Internet Explorer

http://192.168.0.124/libs/addvirtual_number.php?id=32

Valid Value
 Virtual Number (Ex, 123), Y=invalid, Y=timeout

APPLY

Internet | Protected Mode: On 105%

Set the action that what to do. If you click Add what to do, it'll show action list.

AddWhatToDo

APPLY

When Setting action has done. Apply that to finish setting.

Dial Conference
600

Hangup

AddWhatToDo

APPLY

As the below picture, shows virtual number group that consists of number 500 in group. When extension that allows permission to use this virtual number group, calls number 500. Pextel will send your call to conference room NO.600

Virtual Number

[\[Virtual Number Group \]](#) [\[Add New Group \]](#)

Group Name : call_center [\[del\]](#)

Virtual Number	Priority	What to Do	Value	edit	delete
500	1	Dial Conference	600		
	2	Hangup	null		
Add					

All actions in virtual numbers feature will explain later on chapter 4.2 IVR

Chapter 4 Incoming Line Configuration

4.1 **Schedule** is a list of actions from a set of transactions in database. For example, All calls go to IVR in the office hour and all calls go to voicemail system when It is out of office hour because at out of office hour has no employees receive calls.

You can set schedule at menu *Schedule* tab on left hand side. It show as below picture.

Schedules Manager
[\[View Schedule \]](#) [\[Add Schedule \]](#)
 Page **1** ▼

<input type="checkbox"/>	Schedule Name	Description	Time Range				Edit
<input type="checkbox"/>	all	all	Month	Date	Day	Time	
			**	**	**	allTime	
			**	**	**	allTime	
			**	**	**	allTime	
			**	**	**	allTime	

[Delete Selected](#)

Plextel Enterprise Version 2

You will see the default setting of schedule, “All”. That means this schedule support all times. You can add new schedule in this page.

Schedules Manager
[\[View Schedule \]](#) [\[Add Schedule \]](#)

Schedule Details

Name:

Description:

[Add Time Range](#)

[APPLY](#) [Cancel](#)

Plextel Enterprise Version 2

From above picture, it has 2 part to set schedule.

Name is the name of schedule such as working time, closed time.

Description is the wording that explain about schedule

Next, you add the range time. You can add many range times as much as you want to set

Schedules Manager
[View Schedule] [Add Schedule]

Schedule Details

Name:

Description:

Add Time Range

	Month	Day-of-Month	Day-of-Week	Hour	Minute	
from	*	*	*	*	*	Remove
to	*	*	*	*	*	
from	*	*	*	*	*	Remove
to	*	*	*	*	*	
from	*	*	*	*	*	Remove
to	*	*	*	*	*	

APPLY **Cancel**

Plextel Enterprise Version 2

Then, you set range time as this example. This example shows office hour, is on Mon-Fri 8:30 – 17:00 and Sat 8:30-12:30

Schedules Manager
[View Schedule] [Add Schedule]

Schedule Details

Name:

Description:

Add Time Range

	Month	Day-of-Month	Day-of-Week	Hour	Minute	
from	*	*	Monday	8	30	Remove
to	*	*	Friday	17	30	
from	*	*	Saturday	8	30	Remove
to	*	*	Saturday	12	30	

APPLY **Cancel**

Plextel Enterprise Version 2

Then you click apply to save this configure. It'll be display as below picture.

Schedules Manager
[View Schedule] [Add Schedule]

Page 1

<input type="checkbox"/>	Schedule Name	Description	Time Range				Edit
			Month	Date	Day	Time	
<input type="checkbox"/>	Working_Time		*	*	Mon - Fri	8:30-17:30	
			*	*	Sat - Sat	8:30-12:30	

Delete Selected

Plextel Enterprise Version 2

4.2 IVR (Interactive Voice Response) is the system that receive all external calls and manage the call to dial

following a diagram. You can create IVR from *IVR* menu and click to *Create voice Menu* as the below picture.

Voice Menu
[\[View Voice Menu \]](#) [\[Create Voice Menu \]](#)

Voice Menu Details

Name	<input type="text"/>
Description	<input type="text"/>
Allow direct call from this menu	<input type="checkbox"/>
Default Language	English ▼
Enable Menu Password	<input type="checkbox"/>
Intro Sound	Intro.wav ▼
Invalid Sound	Invalid.wav ▼
Timeout Sound	Goodbye ▼
Absolute Timeout Sound	Goodbye.wav ▼
Exit Sound	Goodbye.wav ▼
Music On Hold	Default ▼
Absolute Call Timeout (sec)	<input type="text" value="0"/>
Wait For Response (sec)	<input type="text" value="15"/>
Wait For Additional Digit (sec)	<input type="text" value="3"/>
No Input Max Repeat Times	<input type="text" value="0"/>
Invalid Input Max Repeat Times	<input type="text" value="0"/>
Direct Call Menu	None ▼
Automatic Dial Number	None ▼

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Name: is the name of IVR

Description: is the detail of IVR to explain how to ivr works

Allow direct call from this menu: when you select this box, you will allow the external line to call the extensions directly if caller knows the extension. The first sound that plays in IVR is from Intro Sound. This sound should tell all details how to call extensions. For example, “Welcome to Poisetechnology, please enter your destination number that you know or press 0 to connect operator.”

If you want the external call can dial to extension directly, you must set permission in Call Control.

Call Control

Group Name	Default	Default	Default	poise	eng	test1234	pstn	kkk	sip	SATSCORE	virtual-eng_	virtual-call_center	virtual-abcd	agent_blf_status	conference	parkcalls	testtttttttttt	test_ivr	Paging-4444	test_site	xxx(SIP)	dsdsd(SIP)
All Group	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Default:Default:Default	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
poise:eng:test1234	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
test_site	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
xxx(SIP)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
dsdsd(SIP)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
hello_world	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
testttt	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
111	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
main	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
aaa	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Page 1 :

☒ Extensions Group ☒ Outgoing Call ☒ Call Features ☒ Site-to-Site ☒ Queue ☒ IVR ☒ FAX

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As this example, orange tab is the ivr that has name is main. It set permission that allow default group and sip outgoing call. That means caller can call directly to extension in default group and call pass through sip outgoing call.

Default Language: you can select basic sound language to use with IVR

Enable Menu Password: If this is enable, IVR must require password to access menu to edit rule. After you enable this, it will show details about flow diagram.

Enable Menu Password	<input checked="" type="checkbox"/>
Password Sound	<input type="text" value="Intro"/>
Menu Password	<input type="text"/>
Invalid Password Sound	<input type="text" value="Intro"/>
On Invalid	<input type="text" value="Hangup"/>

Password sound: You can select sound file to play sound to ask password

Menu Password: You can set password for this menu

Invalid Password Sound: This sound will play when user send wrong password

On Invalid: You can select what ivr to do when user enter wrong password. It has 3 choices to choose.

1. Hangup: it hangup when you enter wrong password.
2. Repeat Menu: it ask your password again
3. Goto Previous Menu: it's back to previous menu

Intro sound: this sound is the first one to play when it has call into ivr. For example, “Welcom to Poise Technology, Please press the extension number or press 0 to call operator.”

(If you want to add new sound, you can do that in menu *sound* -> *create voice*)

Invalid Sound: this sound will be played when user enter wrong number such as “You enter wrong number, please enter the number again”

Timeout Sound: This sound will be played when user does not enter the number in time.

Absolute Timeout Sound: This sound will be played when it reach limit time.

Exit Sound: This sound will be played when user enter wrong number and reach the limitation of enter

Music on Hold: Select this to use in IVR

Absolute Call Timeout(sec): If you set this time, it will cut off a call when it reaches time limitation.

Wait for Response(sec): when you set this. IVR will repeat itself if caller don’t enter number in time.

Wait for additional digit(sec): during time that IVR get the number and it has no response. IVR will repeat itself when it’s out of time.

No Input Max Repeat Times: the number of repeating when user doesn’t enter the number in time.

Invalid Input Max Repeat Times: the number of repeating when user enter wrong number.

Direct Call Menu: If you want to jump to another IVR when IVR finish playing sound, you can select in this IVR list.

Automatic Dial Number: You set that ivr can automatic dial to assigned number when it plays intro sound finish.

After that you apply configure and save change. IVR will save configure and then you can edit again to assign each number has what action to do.

IVR	Description	Intro Sound	Edit
5546	545	Intro.wav	
111	11111	Intro.wav	
main	main	Intro.wav	

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From the above example, edit IVR to add number what to do.

Voice Menu

[\[View Voice Menu \]](#) [\[Create Voice Menu \]](#)

Voice Menu Details	
Name	main
Description	main
Allow direct call from this menu	<input checked="" type="checkbox"/>
Default Language	English
Enable Menu Password	<input type="checkbox"/>
Intro Sound	Intro.wav
Invalid Sound	Invalid.wav
Timeout Sound	Goodbye
Absolute Timeout Sound	Goodbye.wav
Exit Sound	Goodbye.wav
Music On Hold	Default
Absolute Call Timeout (sec)	0
Wait For Response (sec)	15
Wait For Additional Digit (sec)	3
No Input Max Repeat Times	0
Invalid Input Max Repeat Times	0
Direct Call Menu	None
Automatic Dial Number	None

Number	Priority	WhatToDo	Value	Edit	Delete
1	1	Dial Group	Default%%Default%%Default		
	2	Dial Extension (serial)	1000		

[Add Number](#)

[APPLY](#)

When you add number in Menu edit IVR, it has new window appear to you for setting what to do



Assigned number is in box for example, assign number 3 for do some action. It'll show following below picture.

3	main
AddWhatToDo	
<hr/>	
<hr/>	
APPLY	

When you add what to do once time, it shows display like the below picture.

The screenshot shows a configuration window with a header bar containing a text input with '3' and a label 'main'. Below this is a dropdown menu currently set to 'Hangup', followed by a button 'AddWhatToDo'. There are also two small icons: a pink one with a downward arrow and a blue one with a trash icon. At the bottom, there is an 'APPLY' button.

The select box has a drop down list. You can select many actions in list.

This screenshot shows the same configuration window as before, but the dropdown menu is open, displaying a list of available actions. A red arrow points to the dropdown arrow icon. The list includes: Hangup, Dial Group, Dial Extension (serial), Dial Extension (all), Go to Queue, Re-Dial, Dial Conference, Leave Voicemail, Playback Sound, Hangup, Repeat Menu, Goto Menu, Goto Previous Menu, Set Language, Announce Call Number, Wait, Follow Me, TRANSFER(PABX), Call Custom APP, Goto Custom APP, and Dial External Line.

Each option is the action that you must assign to IVR. Before setting this, you must learn about details of all action because some actions need to use together. In this version, you can set many actions to relate with sound file. All action can be explain following this.

1. Dial Group:

The screenshot shows the configuration window for the 'Dial Group' action. The dropdown menu is set to 'Dial Group'. To its right is a numeric input field with '20' and a telephone icon. Further right is another dropdown menu set to 'Default%%Default%%Default'. Below these are buttons for 'AddWhatToDo', 'AddOnAnswer', and 'AddOnUnavailable'. At the bottom is an 'APPLY' button.

This action is set to dial group by refer to group list. That time is the ringing timeout and the last box is to select group . Notice that it has 2 options. There are On No Answer(when no person receive call) and On Unavailable (When phone is disconnected). You can assigned it what to do when 2 events have occurred.

2. Dial Extension(serial)

3main

Dial Extension (serial)

20

1000

AddWhatToDo

On No Answer

AddOnAnswer

On Unavailable

AddOnUnavailable

APPLY

1000

1001

1002

1003

1004

1005

1006

1007

1008

1009

1010

1119

1144

2000

3000

3001

3002

3003

3004

6000

9000

9001

9002

9003

9004

9005

9006

9007

9008

9009

This action is to dial to specified extension that you assigned.

3. Dial Extension (all)

3main

Dial Extension (all)

20

1000

AddWhatToDo

On No Answer

AddOnAnswer

On Unavailable

AddOnUnavailable

APPLY

1000

1001

1002

1003

1004

1005

1006

1007

1008

1009

1010

1119

1144

2000

3000

3001

3002

3003

3004

6000

9000

9001

9002

9003

9004

9005

9006

9007

9008

9009

This action is liked a Dial Group but it assign the number and not refer group. For example, you assign number 1000, 2000, 3000 to ring at the same time. But those numbers are in different group.

3 main

Dial Extension (all)	20	1000	↓	🗑️
Dial Extension (all)	20	2000	↓	🗑️
Dial Extension (all)	20	3000	↓	🗑️

AddWhatToDo

On No Answer

AddOnAnswer

On Unavailable

AddOnUnavailable

APPLY

4. Go to Queue

3 main

Go to Queue	null	Queue_Agent	↓	🗑️
-------------	------	-------------	---	----

AddWhatToDo

On QueueExit

AddOnFinish

APPLY

This action is to transfer call to queue. On right hand side will show queue list for selection. And another part that is On Queue Exit, it is to assigned action what to do when no person receive call in queue.

5. **Re-Dial:** This action is to repeat dial this number again. Then it must follow the Dial Group or Dial Extension

3 main

Dial Group 20 Default%%Default%%Default

Re-Dial

AddWhatToDo

On No Answer

AddOnAnswer

On Invalid

AddOnUnavailable

APPLY

6. **Dial Conference:** This action is to dial to conference room

3 main

Dial Conference null 600

AddWhatToDo

On Finish

AddOnFinish

APPLY

7. **Leave Voicemail:** This action is to leave your message or speech on system. Message will be in voicemail box

3 main

Leave Voicemail null 1000

AddWhatToDo

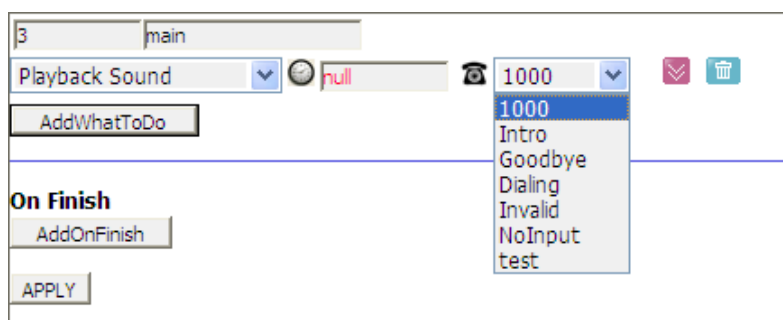
On Finish

AddOnFinish

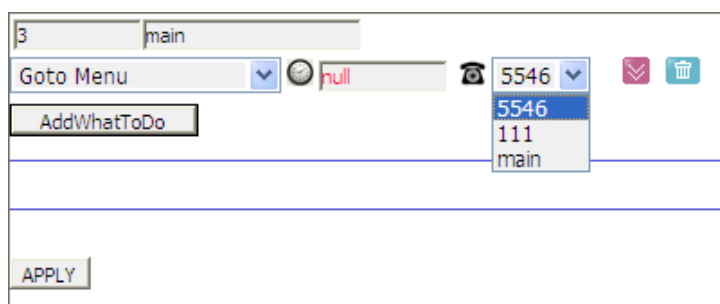
APPLY

1000
1001
1002
1003
1004
1005
1006
1007
1008
1009
1010
1119
1144
2000
3000
3001
3002
3003
3004
6000
9001
9002
9003
9004
9005
9006
9007
9008
9009

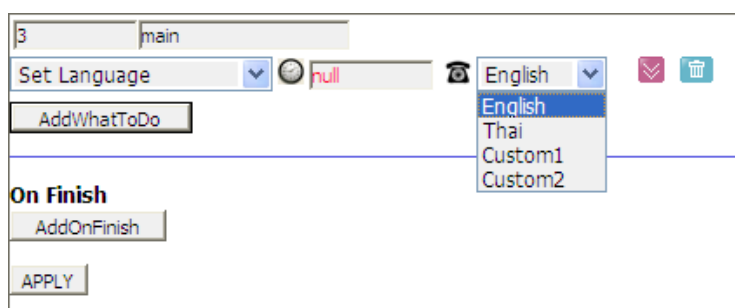
8. **Playback Sound:** this action is to play sound file. You must record your sound(sound -> Create voice) in plextel before set this.



9. **Hangup:** This action is to hang up or drop call.
10. **Repeat Menu:** This action is to repeat the last action again.
11. **Goto Menu:** This action is to jump to another IVR. The right hand side shows IVR list.



12. **Goto Previous Menu:** This action is back to the previous menu
13. **Set Language:** This action is to switch languages to set as default



14. **Announce Call Number :** This action is to announce number that caller enters it before do the next step.
For example, you set number 3 for this action, system will play sound “You press number 3”
15. **Wait:** this action is to wait the user’s number who cannot receive call at this time. When it reach a timeout, it will do the next action.

3 | main

Dial Extension (serial) 20 1000

Wait 20

AddWhatToDo

On Finish

Re-Dial

AddOnFinish

APPLY

16. **Follow me:** this action is to set system jump to follow me that is created in extension menu (Extension -> Add Follow Me Extension). It has a select box to select the extension to set follow me action.

3 | main

Follow Me none

AddWhatToDo

On Finish

Re-Dial

AddOnFinish

APPLY

1000
1001
1002
1003
1004
1005
1006
1007
1008
1009
1010
1119
1144
2000
3000
3001
3002
3003
3004
6000
9000
9001
9002
9003
9004
9005
9006
9007
9008

17. **Transfer (PABX) :** this action is to transfer call to PABX from IVR. In this case, you must connect PABX with plextel server and assign destination number on the right-hand side tab as the below picture.

3 | main

TRANSFER(PABX) 1001

AddWhatToDo

APPLY

18. **Call Custom App:** this action is to use the additional function. You can add new feature at Menu Call Features -> New Features and select feature on right drop down box.

19. **Goto Custom App:** this action is liked as Call Custom App but it's different at the call that go to custom app, it cannot return to IVR .

20. **Dial External Line:** this action is to dial to the external line. You must assign trunk to call out as the below picture.

21. **Read DTMF:** this action is to read the number that caller enter.

Select "To Do" as a Read DTMF

To: You select the variable to keep value

Playback: is the sound to announce when caller into this menu such as "please enter your member's number and press # when you finish"

Max Digit: it is the maximum digit that caller can enter

Attempts: is the number of time that callers can enter their number. IVR will repeat this menu to prompt record your number again.

Timeout: is the during time that IVR will count when playback sound finish playing

22. **Check Database**

Description:

To Do

Check Database ARG1 ARG2 ARG3 Variable

AddWhatToDo

- select your database
- ARG1-3 are the data that you want to compare with database
- Variable is the value that it returns

23. Verify Variable (not exist) is to verify the value that you want to check it

Description:

To Do

Verify Variable (not exist) Playback To-do RetryBeforeExit Playback(exit) To-do(exit)

AddWhatToDo

Name: is the name of variable that you want to check it

Playback: is the sound file that be played when the value of variable is null

To-Do: is the next action will do when finish checking value of variable if the value is not null.

RetryBeforeExit: is the time of checking value

Playback(exit): is the sound file that IVR will play when it check value completely.

To-do(exit): After finish checking value, you can set IVR to do next action at this.

23. Playback Variable: IVR will play value that keep in variable

To Do

Playback Variable Type

AddWhatToDo

- Say Digits
- Say Number
- Playback Sound
- Say Alpha
- Say Phonetic

Name: is the variable that you want to announce the value

Type: is the type of value. For example, if the value is number you must select "Say Number" if the value is digits, you must select "Say Digits".

24. Label Marking: is the marking position in IVR. You can mark position that you want the IVR return to play at this step.

To Do

Label Marking

AddWhatToDo

Name: is the name of Label

25. Goto Label Condition is the action that jump to Label if the condition is true or false.

To Do

Goto Label condition Equalto Yes-Goto No-Goto

AddWhatToDo

When Variable: choose the variable that you want to check in condition

Equal to: is the value that you want to compare with variable

Yes-Goto: if the condition is true, IVR will go to Label that you assigned

No-Goto: if the condition is false, IVR will go to Label that you assigned

26. **SayDate Time:** IVR will play date and time

Type: is the variable that you want to play

Format: is the date and time format

a = day, e = date, b = month, Y= year

27. **Background Sound:** IVR will play selected sound file. The background sound is different from the playback sound in the during time that you can enter the number. As background sound, you can press number while the background sound is playing but in playback sound you cannot press the number until playback sound finish playing.

28. **FAX:** send fax to the selected number

4.3 Incoming Call Setting: incoming call setting is an action that manage what to do when it has incoming call come to system. In menu incoming call at left hand side, it shows as the below picture.

Incoming Call

[[View Incoming Call](#)] [[Add New Incoming Call](#)]

Display 1 - 1 from 1

<input type="checkbox"/>	Trunk	Destination	DID	Description	Edit
<input type="checkbox"/>	trunk:dahdi:test	0 time queue	Queue_Agent	-	

Page 1 :

Delete Selected

Cancel

Select Add New Incoming Call, you will see this page.

Incoming Call

[[View Incoming Call](#)] [[Add New Incoming Call](#)]

Add Incoming Call

Trunk ☐ PABX-link

Description

Support DID

Incoming DID

Replace CallerID

Extensions Ring Timeout(sec)

Add time based handler

Actions

When * Destination*

Value

Remove

APPLY

Cancel

Trunk : is shown the trunk list to select trunk that has incoming call pass through as the below picture.

Add Incoming Call

Trunk ☐ PABX-link

Description

Support DID

Incoming DID

From Example, You will see trunk list and you can select only one trunk.

PABX-link: when you check in check box in this PABX-link, Pextel must connect to PABX.

Description: is to describe the details of this incoming call

Support DID: if you select “yes”, you must have a number to match with incoming call.

Replace Caller ID: enter the number in this box for replace the number that show on system or don’t want to show the called number.

Extension Ring Timeout(sec): is the ring timeout of Extension (sec)

Add time based handler: when you press this, the time base handler will appear in this page. It use this function when you want to do different action in the different period of time. For example, Incoming call will go to IVR on office hour and goes to voicemail on out of office hour.

When: is to select the schedule list to set action

Destination and Value: two parameters are related each other. When you select different destination, the value will be shown the different destination value.

After that, you press add incoming call. WUI will be refreshed to the main page of incoming call interface and show your incoming call.

Chapter 5 System Management

5.1 Manage System Administrator is System of Management to set the username and password of all user. The person who can access to create and edit this part of system, must be the Administrator only. And You should set the permission of user cannot allow to edit configuration. The below picture will shows login page



If you login incorrect username and password, you cannot access to configure it. The default username and password are

Username: admin

Password: plextel

5.1.1 user Manager

You can set or edit the new username and password at menu Advance->Manage Admin like as this example picture.

Users Manager							
[View users] [Add user] [Copy users from extensions]							
<input type="checkbox"/> Web Username	Phone Number	Phone CallerID	Extensions	Web User type	Enable CRM	CRM User Type	Edit
<input type="checkbox"/> monitor				Monitor			
<input type="checkbox"/> user				User			
<input type="checkbox"/> admin				Administrator	Enable	Administrator	
<input type="checkbox"/> 1008	1008	1008	SIP/1008	User			
<input type="checkbox"/> 1007	1007	1007	SIP/1007	User			
<input type="checkbox"/> 1006	1006	1006	SIP/1006	User			
<input type="checkbox"/> 1005	1005	1005	SIP/1005	User			
<input type="checkbox"/> 1004	1004	1004	SIP/1004	User			
<input type="checkbox"/> 2000	2000	2000	SIP/2000	User			
<input type="checkbox"/> 1003	1003	1003	dahdi/5	User			
<input type="checkbox"/> 1002	1002	1002	IAx/1002	User			
<input type="checkbox"/> 1001	1001	aaaa	SIP/1001	User			
<input type="checkbox"/> 1010	1010	1010	SIP/1010	User			
<input type="checkbox"/> 1009	1009	1009	SIP/1009	User			

Page 1:

If you want to edit the username and password, you click at command. Then you can edit that user as below picture.

Users Manager

[[View users](#)] [[Add user](#)] [[Copy users from extensions](#)]

Add user

Select Level	User ▼
Web Username	<input type="text"/>
Password	<input type="password"/>
Re-entry Password	<input type="password"/>
Phone Number	None ▼
Enable CRM	No ▼
CRM User Type	Normal User Type ▼
<input type="button" value="APPLY"/> <input type="button" value="Cancel"/>	

Select Level: it has 3 level to setting for each user – Admin, Monitor, and User. Each level can access different level web page. Admin can access all pages, and user can access some page only such as voicemail.

Web Username: is the name that use to login web page. You should set username same as extension to easy manage.

Password: Password to login web page

Re-entry Password: enter same password again

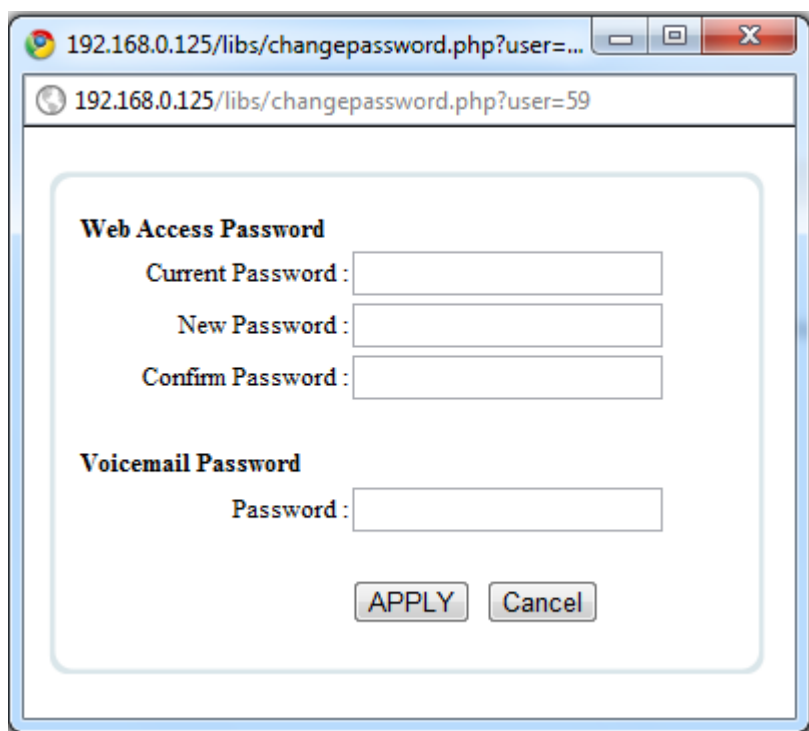
Phone Number: the extension number of user

Enable CRM: allow user to use CRM

CRM User Type: Select CRM level

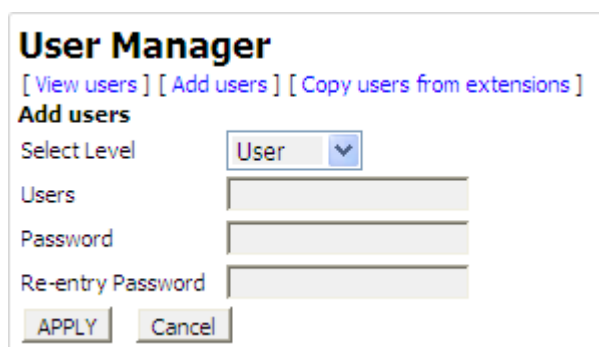
5.1.2 Change Password

When you login to plextel by user level, it shows some menu only. But you can edit your password at menu Change Password (on Top tab bar) and you can also change your voicemail's password.



A screenshot of a web browser window. The address bar shows the URL `192.168.0.125/libs/changepassword.php?user=59`. The page content is enclosed in a light blue border and contains two sections: **Web Access Password** and **Voicemail Password**. The **Web Access Password** section has three input fields labeled "Current Password:", "New Password:", and "Confirm Password:". The **Voicemail Password** section has one input field labeled "Password:". At the bottom of the form are two buttons: "APPLY" and "Cancel".

If you want to add new users, you can do it at menu Add Users



A screenshot of a web form titled "User Manager". Below the title are three links: "[View users]", "[Add users]", and "[Copy users from extensions]". The section is titled "Add users". It contains a "Select Level" dropdown menu with "User" selected. Below this are three input fields labeled "Users", "Password", and "Re-entry Password". At the bottom are two buttons: "APPLY" and "Cancel".

When you add new user. System will show the new one as this below picture.

Users Manager

[View users] [Add user] [Copy users from extensions]

<input type="checkbox"/>	Web Username	Phone Number	Phone CallerID	Extensions	Web User type	Enable CRM	CRM User Type	Edit
<input type="checkbox"/>	monitor				Monitor			
<input type="checkbox"/>	user				User			
<input type="checkbox"/>	admin				Administrator	Enable	Administrator	
<input type="checkbox"/>	1000	1000	1000	SIP/1000	User	Enable		
<input type="checkbox"/>	1001	1001	1001	SIP/1001	User	Enable		
<input type="checkbox"/>	1002	1002	1002	SIP/1002	User	Enable		
<input type="checkbox"/>	1003	1003	1003	SIP/1003	User	Enable		
<input type="checkbox"/>	1004	1004	1004	SIP/1004	User			
<input type="checkbox"/>	1005	1005	1005	SIP/1005	User			
<input type="checkbox"/>	1006	1006	1006	SIP/1006	User	Enable		
<input type="checkbox"/>	1007	1007	1007	SIP/1007	User			
<input type="checkbox"/>	1008	1008	1008	SIP/1008	User	Enable		
<input type="checkbox"/>	1009	1009	1009	SIP/1009	User			
<input type="checkbox"/>	1010	1010	1010	SIP/1010	User			
<input type="checkbox"/>	5000	5000	5000	SIP/5000	User			
<input type="checkbox"/>	5001	5001	5001	SIP/5001	User			
<input type="checkbox"/>	5002	5002	5002	SIP/5002	User			
<input type="checkbox"/>	5003	5003	5003	SIP/5003	User			
<input type="checkbox"/>	5004	5004	5004	SIP/5004	User			
<input type="checkbox"/>	2010	2010	2010	SIP/2010	User			

Add user in menu user manager, is to set the permission to edit the data in the future. At this time, the user can allow to set the value as the admin only.

5.2 LAN Network Setup is to set the IP Address of server. You need to set it as static IP because all IP Phone must be registered to this server. You can set IP Address at menu *Advance->Network Setting* as the below picture.

Network Setting

[\[LAN \]](#)
[\[WAN \]](#)
[\[Static Routing Table \]](#)
[\[DNS \]](#)
[\[DDNS \]](#)
[\[DHCP Service \]](#)
[\[Firewall Service \]](#)
[\[NTP Service \]](#)

[\[eth0 \]](#)
[\[eth1 \(no device\) \]](#)

TCP/IP SETUP (eth0)

Mode Static Setting

IP Address 192 168 0 124

Subnet Mark 255 255 255 0

Gateway 192 168 0 22

After you finish setting or editing IP address. It has the red tab on screen to restart network.

[Please Click here to restart Network](#)

5.3 WAN Network Setting is to set the WAN IP address for the phone that is on the other place or different network to register to this server. You must set the real IP address that is given by ISP (Internet Service Provider). The advantage of the real IP address is the transferring voice signal is working most efficiency because it does not pass through NAT or Firewall. Then you must set real IP address at server and set the ADSL Modem as the bridge mode to forward packet to server. You can set username and password that ISP give it to up at this menu *Advance -> WAN Network Setting*

Network Setting
 [LAN] [**WAN**] [Static Routing Table] [DNS] [DDNS] [DHCP Service] [Firewall Service] [NTP Service]

WAN Network Setup

ISP Login Name (ADSL Account)

Password

Start at Boot ☐ Yes ☒ No

From this example, It set the username from TRUE(ISP). Then you enter the username, password and apply this. It will activate immediately.

5.4 HA Setup is to backup system of server to have more security. It's necessary to have the another server to reserve when the main server has something wrong. The reserved server must has same configuration as the main server.

You can set this HA at menu *Advance -> HA Setup*

High-Availability Configuration

☒ ENABLE

Server Type ☒ Master ☐ Slave

Virtual Server IP-Address

Optional Configuration

Broadcast Interface

Check Interval Time (ms)

Declare Dead Time (Second)

Warm Time (Second)

Init Dead Time (Second)

Auto Failback ☒ On ☐ Off

Enable Debug log ☒ On ☐ Off

Enable log ☒ On ☐ Off

From this example, You can assign the virtual server IP-Address and select type of server. For main server is selected as Master and reserved server is selected as slave. Then you must enable and apply it. You must reboot both of them before HA setup works.

5.5 Firewall/NAT Setup is the setting about the security of system. You should set this part when you allow clients or IP-Phone can register to server. You set this part at *Advance->Network Setting-> Firewall Service*

[illegible]

Description of these values are following this:

- Enable Firewall: [click this](#) to enable firewall
- Service from WAN(PPPoE): service list that allow to access from outside
- Service from LAN(Ethernet): service list that allow to access from inside
- NAT Setup: is the NAT setting
- Internal Server Setup: is to set up port forward to login to another server from outside

5.6 DNS Setup:

DNS setup can set at menu Advance -> *Networking Setting* -> *DNS*

Network Setting

[LAN] [WAN] [Static Routing Table] [DNS] [DDNS]

DNS Setup

Name Server 1	203.144.207.29
Name Server 2	202.6.100.1
Name Server 3	
Name Server 4	

APPLY

5.7 Dynamic DNS: Dynamic DNS will use when your office has no real IP Address. You must register with Dynamic DNS Provider before you set this part. Then you will get the username and password and you can set in this menu

Advance -> Networking Setting -> DDNS

5.8 DHCP Server: is to set server to auto configure IP Address to clients or other devices. You can set DHCP at this menu Advance -> Network Setting -> DHCP Service

- Subnet Value: IP Address Network
- Domain Name:
- Subnet Mask Value: Subnet Mask
- Gateway IP Address: You must set your IP Address of Gateway same as IP Address of Server IP-PBX
- Primary DNS Server
- Secondary DNS Server
- NTP Server: set it same as IP Address of Server IP-PBX to synchronize time to server.
- Option TFTP-server-name: the computer that share file to client (set IP Address of server IP-PBX)

- Client Start IP Address: Start IP Address to automatic configure
- Client End IP Address: Last IP address to automatic configure

5.9 Backup & Restore: This feature is to save and restore configuration of system. You can backup or restore at menu

Advance -> Backup & Restore

From the example, when you click the create new backup button, it'll create the last backup file and file name is the date and time of file when it is created. You can download file to save as another location on your computer for using restore when system has problem or something wrong.

You can reset all configuration by click at Restore Factory Default. All configuration will be deleted.

5.10 License Management: is to add license into system. 1 license is 1 extension. At first license will be add following customer's requirement. If customer wants to add license, you can contact to sale. You can add license at menu *Advance-*

> License Management

From the above picture, it shows number of license is 100 licenses. If you want to add more license, you contact to sale of poise technology and they will send license to you.

5.11 Call Details Record(CDR)

CDR is from Call Details Record, that is the vital part of VoIP telephone system because it records all details about the telephone system such as incoming call, outgoing call. You can see this menu at upper tab of plextel software

Home View CDR Data Filter Logout															
Page 1															
No	Call Date	Description	Direction	Through	Value	Last App	CallerID	From Number	To Number	Channel	Duration	Billsec	Disposition	Disposition (details)	Group/Con
1	2010-06-30 11:33:17	Normal_Call	Internal			Hangup	*1003* <1003>	1003	1002	SIP/1003-0000000a	50	19	ANSWERED	NOANSWER	Default%% Default%% Default
2	2010-06-30 11:32:59	Normal_Call	Internal			Dial	*1006* <1006>	1006	1009	SIP/1006-00000008	3	0	NO ANSWER	CANCEL	Default%% Default%% Default
3	2010-06-30 11:32:16	Normal_Call	Internal			Hangup	*1006* <1006>	1006	100	SIP/1006-00000007	12	12	ANSWERED		Default%% Default%% Default
4	2010-06-30 11:31:06	Normal_Call	Internal			Dial	*1006* <1006>	1006	1009	SIP/1006-00000005	1	0	NO ANSWER	CANCEL	Default%% Default%% Default
5	2010-06-30 11:30:14	Normal_Call	Internal			Dial	*1002* <1002>	1002	1003	SIP/1002-00000002	10	8	ANSWERED	CANCEL	Default%% Default%% Default
6	2010-06-30 11:30:05	Normal Call Leave Voicemail	Internal	Features	Voicemail	VoiceMail	*1002* <1002>	1002	1002	SIP/1002-00000000	6	4	ANSWERED		Default%% Default%% Default
7	2010-06-30 11:11:04	Attended_Transfer	Internal			Hangup	1002	SIP/1001	SIP/1003	Local/1003@Default% %Default%%Default-020f,2	3	3	ANSWERED	CHANUNAVAIL	Default%% Default
8	2010-06-30 11:11:04	Attended_Transfer	Internal			Dial	1002	SIP/1001	SIP/1002	Local/1002@Default% %Default%%Default-3142,2	25	0	NO ANSWER	CANCEL	Default%% Default%% Default
9	2010-06-30 11:10:29	Normal_Call	Internal			Hangup	*1002* <1002>	1002	1001	SIP/1002-00000001b	73	19	ANSWERED	NOANSWER	Default%% Default%% Default
10	2010-06-30 11:09:39	Normal Call Leave Voicemail	Internal	Features	Voicemail	VoiceMail	*two* <1001>	1001	1002	SIP/1001-000000019	50	19	ANSWERED		Default%% Default%% Default
11	2010-06-30 11:09:43	Normal Call Leave Voicemail	Internal	Features	Voicemail	VoiceMail	*two* <1001>	1001	1002	SIP/1001-000000017	41	36	ANSWERED		Default%% Default%% Default

From this above picture, is shows all details. If you want to specify some detail you can use data filter

Data Filter

Time Range	<input checked="" type="radio"/> Jun-2010 <input type="button" value="v"/> - Jun-2010 <input type="button" value="v"/>
	<input type="radio"/> Select Date <input type="text"/> - Select Date <input type="text"/>
Description	ALL <input type="button" value="v"/>
Direction	ALL <input type="button" value="v"/>
Group	ALL <input type="button" value="v"/>
Incoming Type	NONE <input type="button" value="v"/>
Outgoing Trunk	NONE <input type="button" value="v"/>
Source Number	<input type="text"/>
Destination Number	<input type="text"/>
Call Duration	ALL <input type="button" value="v"/> <input type="text"/> Seconds
Disposition	ALL <input type="button" value="v"/>
Disposition(details)	ALL <input type="button" value="v"/>
Last App	ALL <input type="button" value="v"/>
Context	<input type="text"/>

Time Range is the range of time that you want to check details of record

Data Filter

Time Range	<input checked="" type="radio"/> January-2010 <input type="button" value="v"/> - Jun-2010 <input type="button" value="v"/>
	<input type="radio"/> 2010-06-02 <input type="text"/> - 2010-06-15 <input type="text"/>
Description	ALL <input type="button" value="v"/>
Direction	ALL <input type="button" value="v"/>
Group	ALL <input type="button" value="v"/>
Incoming Type	NONE <input type="button" value="v"/>
Outgoing Trunk	NONE <input type="button" value="v"/>
Source Number	<input type="text"/>
Destination Number	<input type="text"/>
Call Duration	ALL <input type="button" value="v"/> <input type="text"/> Seconds
Disposition	ALL <input type="button" value="v"/>
Disposition(details)	ALL <input type="button" value="v"/>
Last App	ALL <input type="button" value="v"/>
Context	<input type="text"/>

You can set description at this

Data Filter

Time Range ☒ January-2010 - Jun-2010 ☐ 2010-06-02 - 2010-06-15

Description ALL

Direction ALL

Group Internal

Incoming Type Outgoing Call

Outgoing Trunk Entering Queue

Source Number Check Voicemail

Destination Number Enter Conference Room

Call Duration Agent Login

Disposition Normal Call Leave Voice

Disposition(details) Park Call

Last App Park Call Pickup

Context Features Code

Seconds

APPLY

Set Direction

Data Filter

Time Range ☒ January-2010 - Jun-2010 ☐ 2010-06-02 - 2010-06-15

Description ALL

Direction ALL

Group ALL

Incoming Type IN

Outgoing Trunk OUT

Source Number INTERNAL

Destination Number

Call Duration ALL

Disposition ALL

Disposition(details) ALL

Last App ALL

Context

Seconds

APPLY

Set Group

Data Filter

Time Range ☒ January-2010 - Jun-2010 ☐ 2010-06-02 - 2010-06-15

Description ALL

Direction ALL

Group ALL

Incoming Type ALL

Outgoing Trunk eng%%poise%%test1

Source Number

Destination Number

Call Duration ALL Seconds

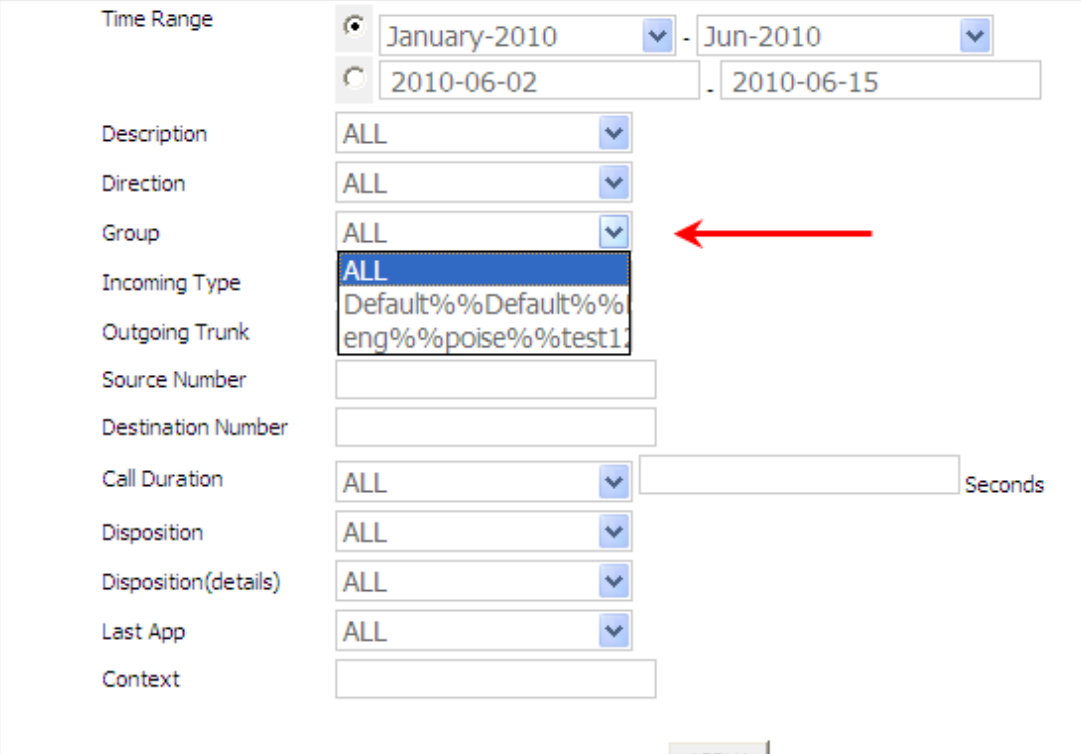
Disposition ALL

Disposition(details) ALL

Last App ALL

Context

APPLY



Set Incoming Type

Data Filter

Time Range ☒ January-2010 - Jun-2010 ☐ 2010-06-02 - 2010-06-15

Description ALL

Direction ALL

Group ALL

Incoming Type NONE

Outgoing Trunk NONE

Source Number

Destination Number

Call Duration Seconds

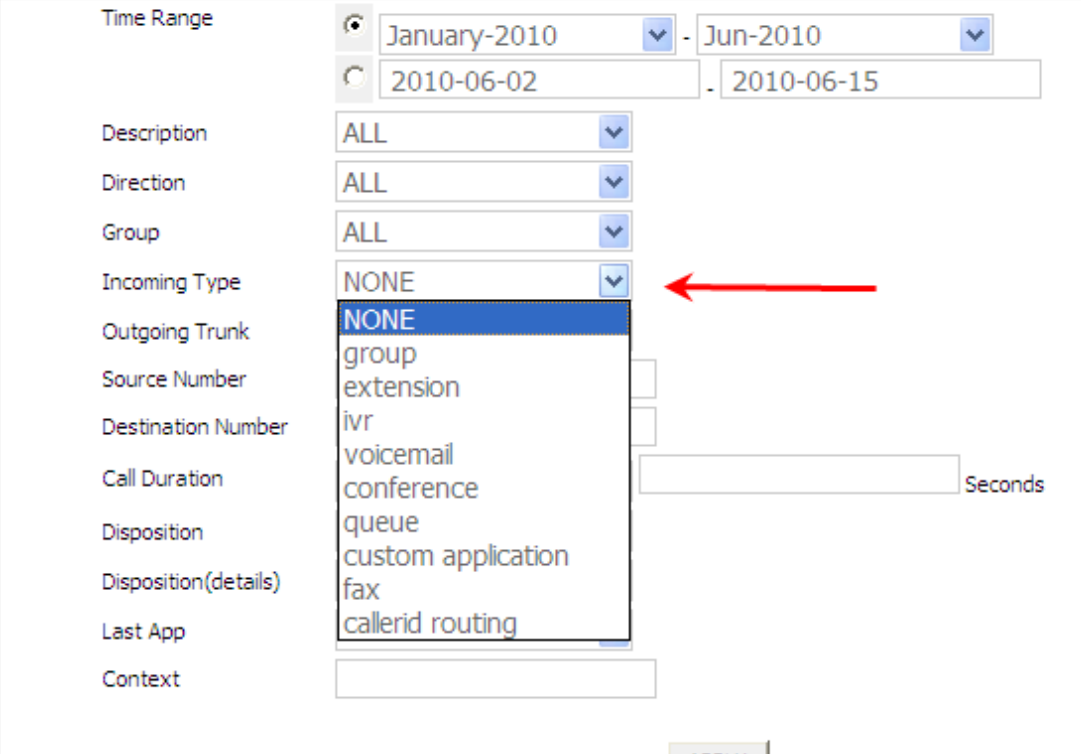
Disposition

Disposition(details)

Last App

Context

APPLY



Set Outgoing Trunk

Data Filter

Time Range ☐ January-2010 - Jun-2010 ☐ 2010-06-02 - 2010-06-15

Description

Direction

Group

Incoming Type

Outgoing Trunk

Source Number

Destination Number

Call Duration Seconds

Disposition

Disposition(details)

Last App

Context

APPLY

Menu CDR setup is to set the result of CDR detail. You can select to show some value from this menu

PLEXTEL SYSTEM

Home | View CDR | Data Filter | Setup | Logout

Select field to show on CDR windows

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Call Date	Direction	Description	Through	Value	IVR Details	Last App	CallerID
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
From Number	To Number	Channel	Duration	Billsec	Disposition	Disposition(details)	Group/Context

CDR Database Management

Select Time Range ☐ ALL ☐ Date Range **Start Date:** **End Date:**

Last backups

APPLY

Call Date: shows date and time

Direction: shows calling status. There are 3 typex

- Internal – call between extension,
- Incoming – when receive call from external line
- Outgoing – Call out by external line

Description: shows details of direction

Through: shows working type

Value: shows through details

IVR Details: shows values of IVR system

Last App: show the last calling

Caller ID: shows incoming number

From number: shows the caller number

To number: shows the destination number

Channel: shows call routing

Duration: shows time duration from you enter the number to hang up call

Billsec: shows time duration from destination receive call to hang up call for calculating cost

Disposition: shows call status

Disposition(Details): show call status details

Group/Context: shows group name list

The low part of CDR database management is to backup database of CDR. You can select all or select by time duration.

5.12 Auto Provision: You can set auto provision at menu *Advance -> Auto Provision*

Enable	Extensions	MAC-Address	PhoneType	Allow FW-Update
-	1000 on Thousand		none	-
✓	1001 two	000413235C51	snom360	✓
-	1002 1002		none	-
-	1003 1003		none	-
✓	1004 1004	0004132F9BB3	snom300	✓
-	1005 1005		none	-
-	1006 1006		none	-
-	1007 1007		none	-
-	1008 1008		none	-
✓	1009 1009	001565115C69	yealinkt28	✓
✓	1010 1010	0123456789BB	yealinkt26	✓
✓	1119 1119	0123456AAAABBB	yealinkt22	✓
✓	1144 1144	AAA111222BBB	yealinkt20	✓
✓	2000 Mr. TTwo Thoudsand	AAAAAAAAAAAAA	yealinkt18	✓
✓	3000 3000	BBBBBBBBBBBBB	yealinkt12	✓
-	3001 3001		none	-
-	3002 3002		none	-
-	3003 3003		none	-

Auto Provision is to configure IP-Phone by using plextel register. This feature supports some IP-Phone series. For this page, you can upload firmware for updating IP-Phone (look at 1.2.1 add sip extension)

From above picture, it shows phone list that activate auto-provision. If you have new firmware and you want to update to your IP-Phone. You go to advance setup and it shows display as below picture

Advanced Setup

[[Phone Provisioning](#)] [[Advanced Setup](#)]

Firmware Selection

SNOM300	<input type="text"/> Browse...	<input type="button" value="Upload"/>
SNOM320	<input type="text"/> Browse...	<input type="button" value="Upload"/>
SNOM360	<input type="text"/> Browse...	<input type="button" value="Upload"/>
SNOM370	<input type="text"/> Browse...	<input type="button" value="Upload"/>
SNOM820	<input type="text"/> Browse...	<input type="button" value="Upload"/>
SNOM821	<input type="text"/> Browse...	<input type="button" value="Upload"/>
SNOM870	<input type="text"/> Browse...	<input type="button" value="Upload"/>
Yealink T12	<input type="text"/> Browse...	<input type="button" value="Upload"/>
Yealink T18	<input type="text"/> Browse...	<input type="button" value="Upload"/>
Yealink T20	<input type="text"/> Browse...	<input type="button" value="Upload"/>
Yealink T22	<input type="text"/> Browse...	<input type="button" value="Upload"/>
Yealink T26	<input type="text"/> Browse...	<input type="button" value="Upload"/>
Yealink T28	<input type="text"/> Browse...	<input type="button" value="Upload"/>

SNOM Phone Update policy

SNOM Setting Refresh Timer mins (0=never refresh)

Phone Username For SNOM

Phone Password For SNOM

Phone Interface Password For SNOM

Yealink Phone update policy

Yealink Setting Refresh Timer mins (for Repeatedly rules)

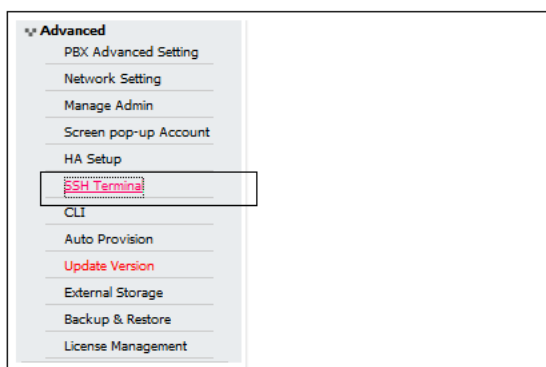
Admin Password for Yealink

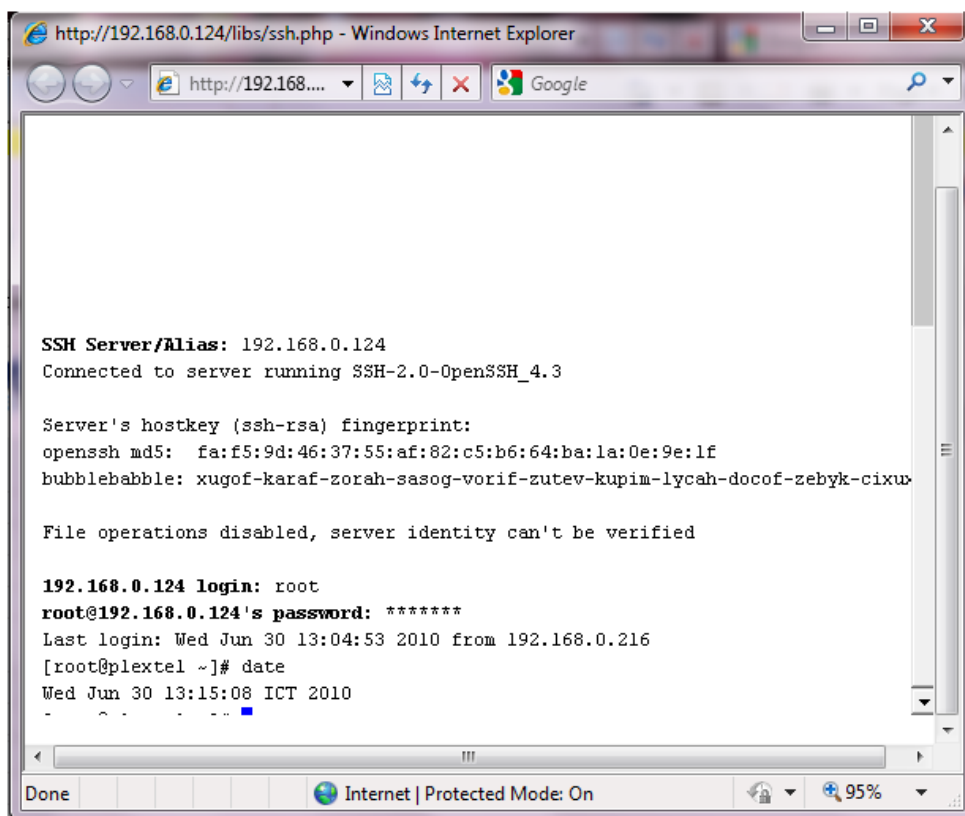
Note: This features required functional DHCP server, to enable this feature on external DHCP server, DHCP option 66 must be set to <http://< ipaddress >/autoprovision/>

You can browse firmware for each IP-Phone series that you want and upload it. After you reboot your IP-Phone, it automatic update firmware.

5.13 SSH Terminal

This feature is in menu *Advanced -> SSH Terminal*

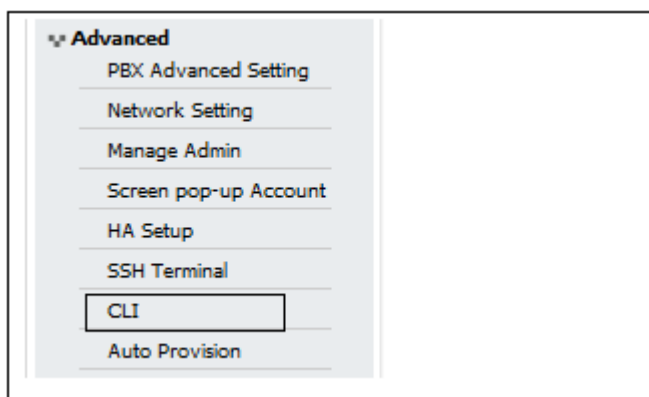




This menu uses for remote to server by using SSH to run linux command. The PC or Notebook that open this page, must have Java Runtime on theirs. After open this page, you must input username and password to access this.

CLI

This menu is at *Advanced* -> *CLI*



This menu uses asterisk command to manage it. This menu for user who have asterisk knowledge but cannot login to system. You can run command by using this menu. For example, You want to show which extensions are online in plextel. You run command “sip show peers” to show that.

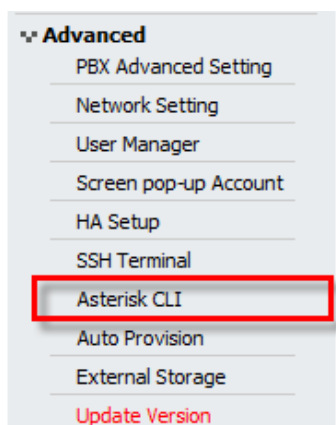
```

plextel*CLI >
plextel*CLI > sip show peers
Name/username      Host              Dyn Nat ACL Port   Status
4000                (Unspecified)    D      0      Unmonitored
sipsite_dsd/dsd    (Unspecified)    D      5060   UNKNOWN
sipsite_xxx/xxx    (Unspecified)    D      5060   UNKNOWN
trunk%%sip%%asf    0.0.83.97        N      5060   Unmonitored
9009/9009          192.168.0.204    D      5060   OK (87 ms)
9008/9008          192.168.0.213    D      5060   OK (32 ms)
9007/9007          192.168.0.213    D      41056  OK (106 ms)
9006                (Unspecified)    D      0      UNKNOWN
9005                (Unspecified)    D      0      UNKNOWN
9004                (Unspecified)    D      0      UNKNOWN
9003/9003          192.168.0.211    D      5062   OK (54 ms)
9002                (Unspecified)    D      0      UNKNOWN
9001                (Unspecified)    D      0      UNKNOWN
3004                (Unspecified)    D      0      UNKNOWN
3003                (Unspecified)    D      0      UNKNOWN
3002                (Unspecified)    D      0      UNKNOWN
3001                (Unspecified)    D      0      UNKNOWN
3000/3000          192.168.0.216    D      24671  OK (106 ms)
1144                (Unspecified)    D      0      UNKNOWN
1119                (Unspecified)    D      0      UNKNOWN
1010                (Unspecified)    D      0      UNKNOWN
1009/1009          192.168.0.190    D      5062   OK (67 ms)
1008/1008          192.168.0.184    D      38671  OK (108 ms)
1007                (Unspecified)    D      0      UNKNOWN
1006/1006          192.168.0.236    D      5060   OK (14 ms)
1005                (Unspecified)    D      0      UNKNOWN

```

5.14 Asterisk CLI

Go to menu Advanced → Asterisk CLI



This menu uses for the system administrator to access the shell from webpage. User can use to this shell and input the command and getting display from this shell. Eg. Input “sip show peers” for display the online extension.

```

plextel*CLI >
plextel*CLI > sip show peers
Name/username      Host              Dyn Nat ACL Port    Status
4000                (Unspecified)    D      0      Unmonitored
sipsite_dsdsd/dsdsd (Unspecified)    5060    UNKNOWN
sipsite_XXX/XXX    (Unspecified)    5060    UNKNOWN
trunk%%sip%%asdf  0.0.83.97        N      5060    Unmonitored
9009/9009          192.168.0.204    D      5060    OK (87 ms)
9008/9008          192.168.0.213    D      5060    OK (32 ms)
9007/9007          192.168.0.213    D      41056   OK (106 ms)
9006                (Unspecified)    D      0      UNKNOWN
9005                (Unspecified)    D      0      UNKNOWN
9004                (Unspecified)    D      0      UNKNOWN
9003/9003          192.168.0.211    D      5062    OK (54 ms)
9002                (Unspecified)    D      0      UNKNOWN
9001                (Unspecified)    D      0      UNKNOWN
3004                (Unspecified)    D      0      UNKNOWN
3003                (Unspecified)    D      0      UNKNOWN
3002                (Unspecified)    D      0      UNKNOWN
3001                (Unspecified)    D      0      UNKNOWN
3000/3000          192.168.0.216    D      24671   OK (106 ms)
1144                (Unspecified)    D      0      UNKNOWN
1119                (Unspecified)    D      0      UNKNOWN
1010                (Unspecified)    D      0      UNKNOWN
1009/1009          192.168.0.190    D      5062    OK (67 ms)
1008/1008          192.168.0.184    D      38671   OK (108 ms)
1007                (Unspecified)    D      0      UNKNOWN
1006/1006          192.168.0.236    D      5060    OK (14 ms)
1005                (Unspecified)    D      0      UNKNOWN

```

5.15 Screen pop-up Account

This menu uses for create the account to use with Screen pop-up API

Go to menu Advanced -> Screen pop-up Account then select “Create Screen pop-up Account”

Screen pop-up Account

[[View Screen pop-up Account](#)] [[Create Screen pop-up Account](#)]

Screen pop-up Account

☒ **ENABLE**

Username

Password

Permit Range

Network ID

Subnet Mask

CheckENABLE box and specifyUser Name and Password for thisAccount, then click APPLY. You will get an account for theScreen pop-up API. You can set that program and login to use it.

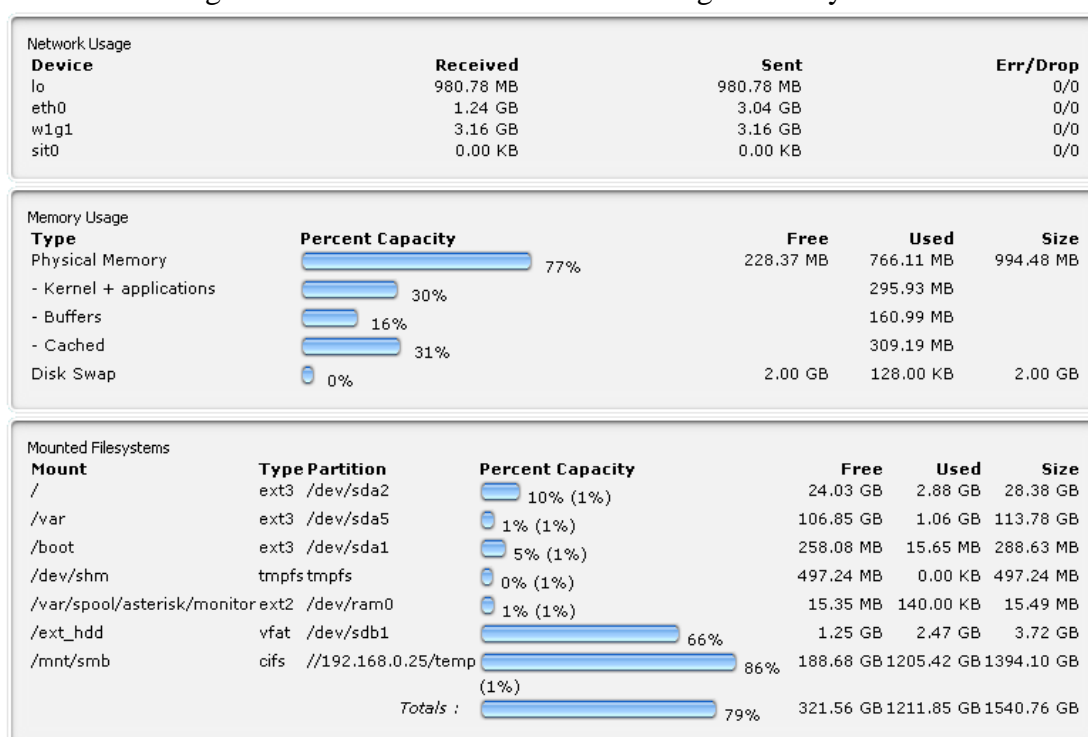
Chapter 6 System Monitoring

This chapter, we will introduce the feature for displaying the status and monitoring the system of Pextel IP-PBX. This feature can facilitate the system administrator to manage system easily form the web-interface.

6.1 Show Status: Go to menu Status -> Show Status. This screen will show the real-time status of PextelIP-PBX

There are 3 parts in this page

1. Network Usage: Shows the status of data transfer (sent/receive/lost) of the network
2. Memory Usage: Shows the status of the main memory using in the system
3. Mounted Usage: Shows the status of harddisk storage in the system



If you would like to shutdown or reboot properly, you can do it by go to menu Status > Power Management. It will show these 3 buttons.



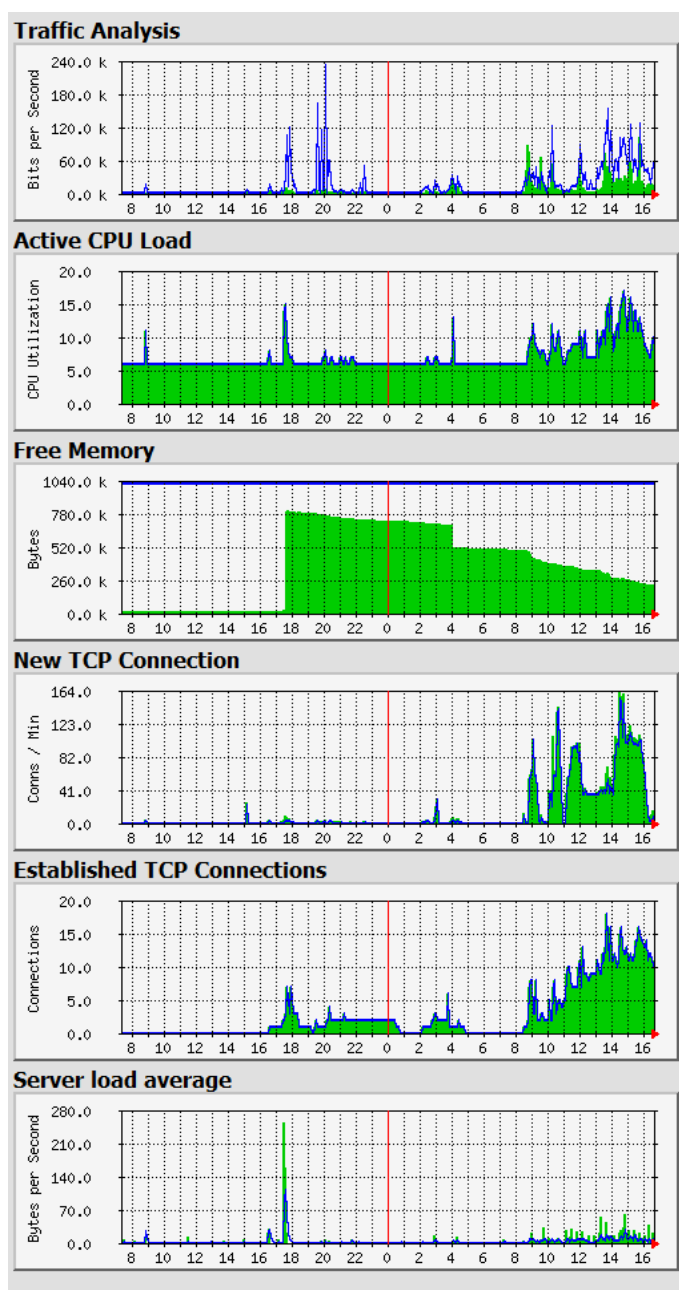
Reboot: This button uses for restart the system when it happen some fault from any running process.

Restart Service: This button uses for restart every services which using with IP-PBX (eg. Interface card)

Shutdown: This buttons uses for shutdown the system.

6.2 Show Graph

Go to menuStatus -> System Statistic. This screen uses for displaying the status of hardware using in this system. It can show in graph that makes you compare the status easily. You can see some variables; Traffic Analysis, Active CPU Load, Free Memory, New TCP Connection, Established TCP Connections and Server Load Average.



6.3 Service Status

Go to menu Status -> Service Status, This screen uses for display the status of the service using in the IP-PBX whether it is running or not. You can turn the service on or off by clicking on the start/stop button. And you can also set it to turn on automatically at every booting time.

- SSH: Allow server to remote via secure shell
- NTP: Service to update the time from Internet time server
- WEB: Allow to do the configuration from website
- FIREWALL: Service to enable the network security of this system
- IP-PBX: Service of telephony system

Name	Status	Start	Stop	On-Boot
SSH	running	Start	Stop	<input checked="" type="radio"/> Yes <input type="radio"/> No
NTP	running	Start	Stop	<input checked="" type="radio"/> Yes <input type="radio"/> No
WEB	running	Start	Stop	<input checked="" type="radio"/> Yes <input type="radio"/> No
FIREWALL	running	Start	Stop	<input checked="" type="radio"/> Yes <input type="radio"/> No
IP-PBX	running	Start	Stop	<input checked="" type="radio"/> Yes <input type="radio"/> No

Apply

Network Tools

Select Tool : ping URL :

Show Status

We can do the network testing by ping, check DNS by nslookup and trace the router hop from traceroute from the Network Tools part.

6.4 List DID Number











































Go to menu Status -> List DID Number, This screen uses for display the list of DID for the digital telephony in the system.

List DID Number			
Trunk	DID Number	Extension	
gateway:sip:test_sys	202	none	
trunk:dahdi:test	343	none	
trunk:dahdi:test	908	none	
trunk:dahdi:test	555	none	

Page 1 :

6.5 Phone's Connection Status

Go to menuStatus -> Phone's Connection Status, This screen uses for checking the IP-Phone connection, PSTN connection, IAX connection, VoIP provider connection to the system separated in type and display the color labeled of each unit.

Phone's Connection Status							
SIP							
No	Number	Name (Callerid)	IPAddress	NatSupport	VideoSupport	Status	Type
1	4000		-none-	 no	 no	Unmonitored	SIP
2	sip site_www		-none-	 no	 no	UNKNOWN	SIP
3	trunk%%sip%%asdf		0.0.83.97	 yes	 no	Unmonitored	SIP
4	3004	3004	-none-	 no	 no	UNKNOWN	SIP
5	3003	3003	-none-	 no	 no	UNKNOWN	SIP
6	3002	3002	-none-	 no	 no	UNKNOWN	SIP
7	3001	3001	-none-	 no	 no	UNKNOWN	SIP
8	3000	3000	-none-	 no	 no	UNKNOWN	SIP
9	1144	1144	-none-	 no	 no	UNKNOWN	SIP
10	1119	1119	-none-	 no	 no	UNKNOWN	SIP
11	1010	1010	-none-	 no	 no	UNKNOWN	SIP
12	1009	1009	192.168.0.190	 no	 no	OK (56 ms)	SIP
13	1008	1008	192.168.0.214	 no	 no	OK (109 ms)	SIP
14	1007	1007	192.168.0.204	 no	 no	OK (85 ms)	SIP
15	1006	1006	-none-	 no	 no	UNKNOWN	SIP
16	1005	1005	-none-	 no	 no	UNKNOWN	SIP
17	1004	1004	192.168.0.220	 no	 no	OK (112 ms)	SIP
18	1003	1003	-none-	 no	 no	UNKNOWN	SIP
19	1002	1002	-none-	 no	 no	UNKNOWN	SIP
20	1001	two	192.168.0.217	 no	 no	OK (18 ms)	SIP
21	1000	on Thousand	192.168.0.216	 yes	 no	OK (105 ms)	SIP
IAX							
No	Number	Name (Callerid)	IPAddress	NatSupport	VideoSupport	Status	Type
1	server_wwwq/use		(Unspecified)			UNKNOWN	IAX2
2	6000	6000	(Unspecified)			UNKNOWN	IAX2
3	2000	Mr. TTwo Thoudsand	(Unspecified)			UNKNOWN	IAX2
4	FaxDSP2/FaxDSP2		127.0.0.1			OK	IAX2
5	FaxDSP1/FaxDSP1		127.0.0.1			OK	IAX2
PSTN							
No	Number (Channel)			Alarm		Type	
1	1			No Alarm		FXO	
2	2			No Alarm		FXO	
3	3			No Alarm		FXO	
4	4			No Alarm		FXO	
5	5			No Alarm		FXS	

From the picture above, there are the colored labels at the status column. You can identify from red colored whether it is not available and green color with the response time whether it is available.

6.6 Phone Status Panel:

Go to menuStatus -> Phone Status Panel, This screen uses for display the status of every phone in the system from the color labeled.

Red- That phone is in use.

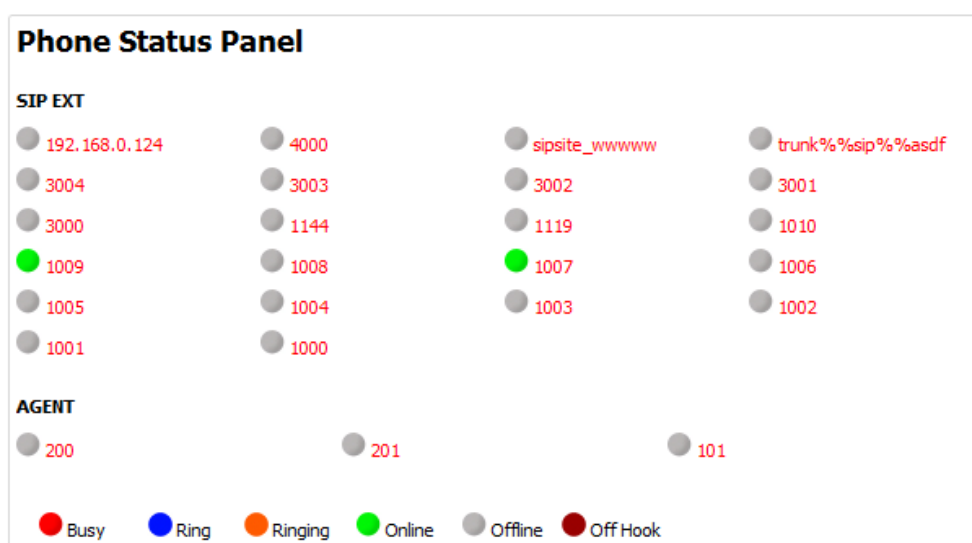
Blue- That phone is calling

Orange -That phone is ringing

Green- That phone is available.

Grey- That phone is not available

Brown- That phone is waiting from hold.





6.7 Active Call Status

Go to menuStatus -> Active Call Status, This screen uses for monitor the phone call in the system immediately (real-time). It displays the source, destination, application and duration. You can click to hung-up or transfer the call from this page.

Active Call Status

We have total 1 active call Active Call

Source	Destination	Application	Duration	Command
1004	1009	Dial	00:00:06	 

Chapter 7 System's Sound Files (Manage the sound file)

7.1 Create Voice

This function uses to manage the sound prompt in the system. You can use this sound prompt to be an IVR system. You can do it by go to menu Sounds -> Create Voice. The screen will show as picture below.

Voice Prompt
[\[View Voice prompt \]](#) [\[Create Voice Prompt \]](#) [\[Default Voice \]](#) [\[Clear All Record Dialplan \]](#)

<input type="checkbox"/> Filename	Description	Th	En	C1	C2	Edit
<input type="checkbox"/> Intro	Introduction to Pextel System Sound (Default)					
<input type="checkbox"/> Goodbye	Goodbye Sound (Default)					
<input type="checkbox"/> Dialing	Dialing Sound (Default)					
<input type="checkbox"/> Invalid	Invalid Sound (Default)					
<input type="checkbox"/> NoInput	NoInput Sound (Default)					

Page 1 :

From the picture above, you can add maximum 4 sound files for 4 languages. (There are 2 default sound file; Thai and English; in the system.)

- Filename: Specify the filename
- Description : Specify the description of this prompt
- Listen: Click at button to play the voice
- Download: Click at button to save the voice to machine
- Edit: Click to change the voice of that prompt

'Default Voice' is the main voice which will play that language at the first time. For example, you set English to be the default voice. It will play English voice first. However, you can change it later.

Voice Prompt
[\[View Voice prompt \]](#) [\[Create Voice Prompt \]](#) [\[Default Voice \]](#) [\[Clear All Record Dialplan \]](#)

Filename	Description	Th	En	C1	C2	Edit
ask_trunkpassword	Ask Trunk password before dial out					
channel_full	Tell Outgoing Channel is Full					
incorrect_password	Used before dial out, if user input wrong password					
invalid_number	Used in IVR when user input wrong number					
lock_invalid	Used in phonelock feature when user input wrong nu...					
lock_nowlock	Used in phonelock feature when phone is locked					
lock_select	Used in phonelock feature, ask user to lock or unlock					
lock_status	Used in phonelock feature, not allow to call out					
lock_terminate	Used in phonelock feature, when finish lock menu					
press	Used to tell pressing status					
transferred_operator	Transferred Operator					
now_unlock	Used in phonelock feature when phone is unlocked					
ivrdial-unavailable	Used in IVR when dial to extension with unavailable					
ivrdial-noanswer	Used in IVR when dial to extension with no answer					
from_IVR_userselect_novm	Direct call from IVR with noanswer status					
from_IVR_userselect_vm	Direct call from IVR with voicemail					
menu_error	Direct call-wrong option					
roaming_select	Used in roaming features					

Page 1 :

If we click on the edit button, the screen will show as picture below.

Voice Prompt
[\[View Voice prompt \]](#) [\[Create Voice Prompt \]](#) [\[Default Voice \]](#) [\[Clear All Record Dialplan \]](#)

Create Voice prompt

Filename:

Description:

Default sound

Thai


Thai Sound file:

English Sound file:

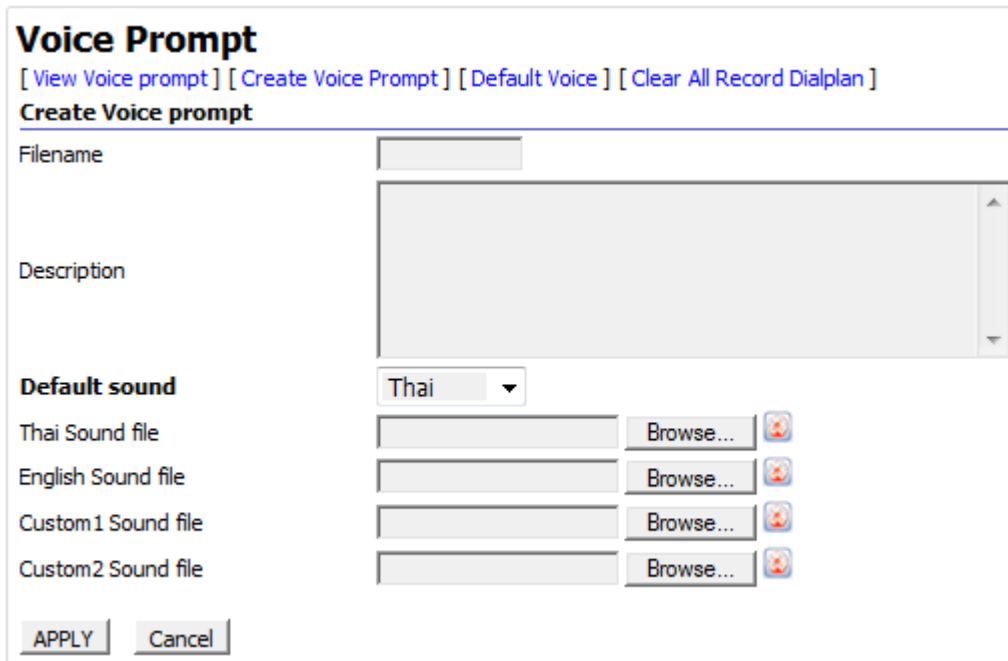
Custom1 Sound file:

Custom2 Sound file:

- Filename: Change the filename of this voice prompt
- Description: Change the description of this voice prompt
- Default Sound: Change the default voice
- Listen: Click at button to play the voice.

- Record :Click at  button to record the new voice from the phone.
You can upload the voice file to the system separately to each language by clicking Browse button at each field. Then click apply button to upload.

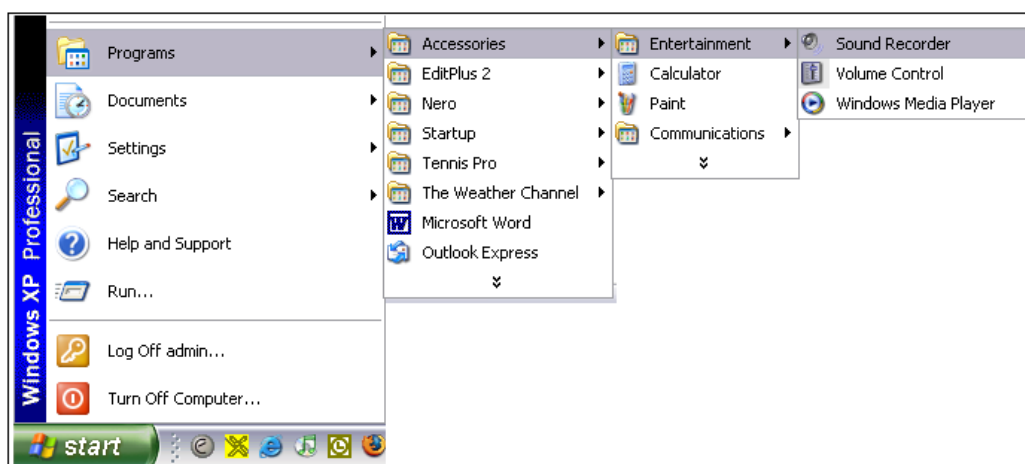
At the 'Create Voice Prompt' menu, The screen will show as picture below.



This screen shows that you have 2 ways to add the voice to the system.

1. Upload from your computer
2. Record from your phone

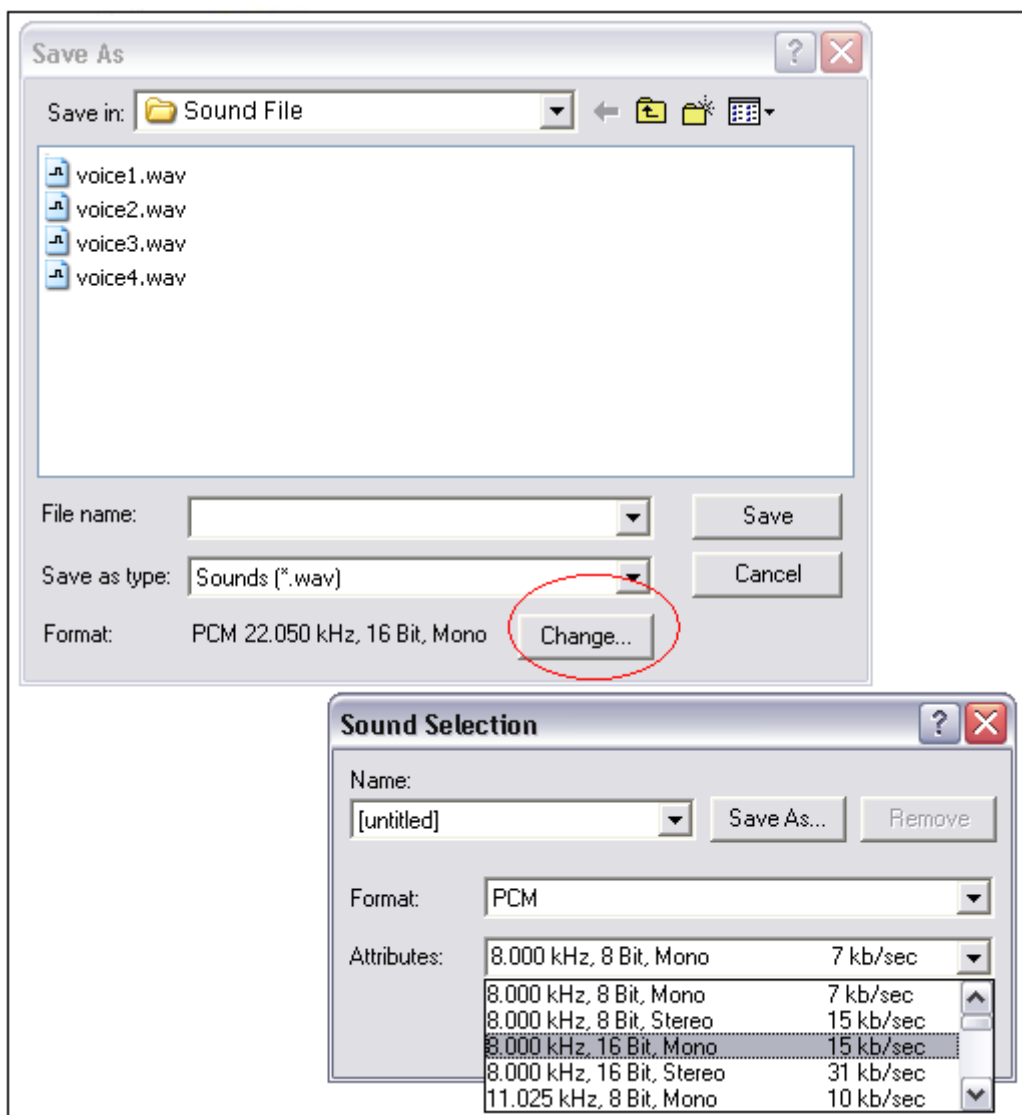
You can record the voice from your computer by using 'Sound Recorder' program at your computer. Go to Start -> Program File -> Accessory -> Entertainment -> Sound Recorder



The program is opened. You should click  button and record your voice from microphone.



After finished recording, you should click 'File -> Save as' and change some properties of that voice by click at Change button as picture below.

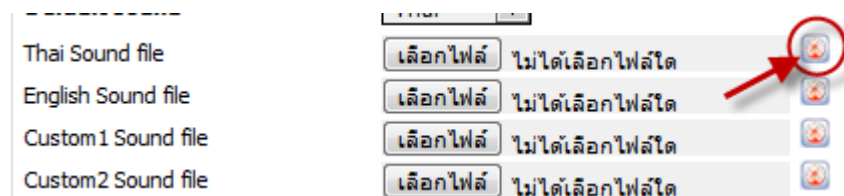


At the 'Sound Selection' window, you have to choose the format of this sound to be 'PCM' and Attributes is 8.000 KHz, 16 Bit, Mono as picture above. Then click OK and Save this file. You can bring this voice file to use with the system.

Another method is recording from your phone. Go to menu Sounds -> Voice Prompt -> Create Voice Prompt

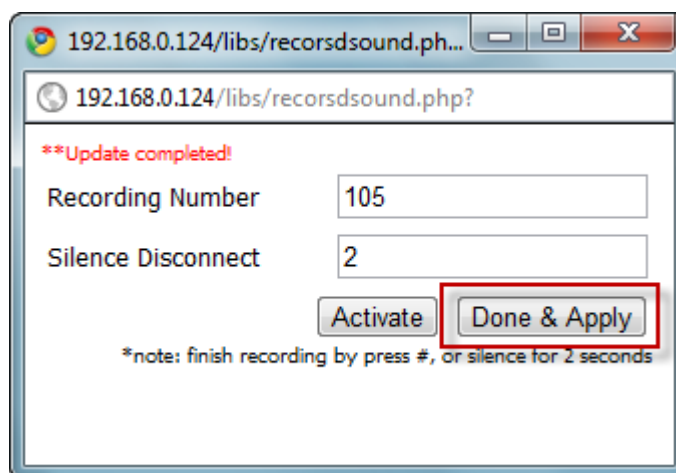
You can record directly from your telephone by these following methods.

1. Specify the filename of this voice prompt
2. Click on the button on the right hand side of that language



3. There is a pop-up window appeared. It will show the phone number for dial to record the sound at 'Recording Number' and the time to stop and disconnect when silent (represented in second). If you ready to record press Activate button.

Now, you have to dial to that phone number as shown in the Recording Number field. (Eg. 105) and talk to the phone. After finish, you can stop and silent for a 2 seconds (as shown in the Silence Disconnect) or press # to save. The system will give 'Beep' sound to confirm. Then hung up and click at the Done & Apply button as picture below.



7.2 Call Record Files

You can listen to the recorded voice call from every trunk (eg.Zap Channels andSip Channels from this menu. Go to Sounds -> Call Record Files. The screen will show as picture below.

Call Recording Files

Start date: End date:

FILTER:

Display 1 - 21 from 21

Files	Date Time	Size	Listen	Download
<input type="checkbox"/> USR_OUT-from-1000-to-11@2010-06-25-14-47-48.gsm	2010-06-25 14:47:48	1188 byte		
<input type="checkbox"/> USR_OUT-from-1000-to-11@2010-06-25-14-48-17.gsm	2010-06-25 14:48:17	858 byte		
<input type="checkbox"/> USR_IN-from-1005-to-1006@2010-06-25-15-52-24.gsm	2010-06-25 15:52:24	36432 byte		
<input type="checkbox"/> AUTO-from-1005-to-1006@2010-06-25-15-52-39.gsm	2010-06-25 15:52:39	8184 byte		
<input type="checkbox"/> USR_IN-from-1006-to-1006@2010-06-25-15-57-17.gsm	2010-06-25 15:57:17	3300 byte		
<input type="checkbox"/> USR_IN-from-1006-to-1005@2010-06-25-16-49-02.gsm	2010-06-25 16:49:02	19041 byte		
<input type="checkbox"/> AUTO-from-1006-to-1005@2010-06-25-16-49-04.gsm	2010-06-25 16:49:04	13563 byte		
<input type="checkbox"/> USR_OUT-from-1009-to-11@2010-06-25-17-15-29.gsm	2010-06-25 17:15:29	12276 byte		
<input type="checkbox"/> USR_OUT-from-1009-to-11@2010-06-25-17-15-49.gsm	2010-06-25 17:15:49	3960 byte		
<input type="checkbox"/> USR_OUT-from-1009-to-11@2010-06-25-17-46-10.gsm	2010-06-25 17:46:10	8415 byte		
<input type="checkbox"/> USR_IN-from-1008-to-1007@2010-06-28-12-03-43.gsm	2010-06-28 12:03:43	4884 byte		
<input type="checkbox"/> USR_IN-from-1005-to-1001@2010-06-28-13-24-56.gsm	2010-06-28 13:24:56	36993 byte		
<input type="checkbox"/> USR_IN-from-1007-to-1008@2010-06-28-13-30-24.gsm	2010-06-28 13:30:24	4917 byte		
<input type="checkbox"/> USR_IN-from-1007-to-1008@2010-06-28-13-30-54.gsm	2010-06-28 13:30:54	25113 byte		
<input type="checkbox"/> USR_IN-from-1008-to-1007@2010-06-28-13-31-36.gsm	2010-06-28 13:31:36	29865 byte		
<input type="checkbox"/> USR_IN-from-1000-to-1009@2010-06-28-15-42-37.gsm	2010-06-28 15:42:37	85239 byte		
<input type="checkbox"/> USR_IN-from-1000-to-1009@2010-06-28-15-43-42.gsm	2010-06-28 15:43:42	103356 byte		
<input type="checkbox"/> USR_IN-from-1007-to-1009@2010-06-28-15-44-33.gsm	2010-06-28 15:44:33	19074 byte		
<input type="checkbox"/> USR_IN-from-1004-to-1009@2010-06-29-09-28-50.gsm	2010-06-29 09:28:50	49467 byte		
<input type="checkbox"/> USR_IN-from-1004-to-1009@2010-06-29-09-31-04.gsm	2010-06-29 09:31:04	26895 byte		
<input type="checkbox"/> USR_IN-from-1009-to-1004@2010-06-29-09-55-19.gsm	2010-06-29 09:55:19	9669 byte		

Page 1

Delete Selected Download Selected Copy to SMB Move to SMB Cancel

You can set the date range and condition from filter menu.

NONE : Select all

SIP Trunk : Select only the call recorded from SIP Trunk

ZAP Trunk: Select only the call recorded from ZAP Trunk (PSTN)

USER : Select only the call recorded of specific extension

QUEUE : Select only the call recorded in queue

CONFERENCE: Select only the call recorded from conference room

AGENT : Select only the call recorded from specific agent in queue

Then select FROM, TO or BOTH and specify the number. And press select button, It will appear the result as picture below.

Call Recording Files

Start date: Select End date: Select

FILTER: USER BOTH 1004 SELECT

Display 1 - 3

Files	Date Time	Size	Listen	Download
<input type="checkbox"/> USR_IN-from-1004-to-1009@2010-06-29-09-28-50.gsm	2010-06-29 09:28:50	49467 byte		
<input type="checkbox"/> USR_IN-from-1004-to-1009@2010-06-29-09-31-04.gsm	2010-06-29 09:31:04	26895 byte		
<input type="checkbox"/> USR_IN-from-1009-to-1004@2010-06-29-09-55-19.gsm	2010-06-29 09:55:19	9669 byte		

Page 1

Delete Selected Download Selected Copy to SMB Move to SMB Cancel

Call Recording Files

Start date: Select End date: Select

FILTER: USER BOTH 1004 SELECT

Display 1 - 3 from 3

Files	Date Time	Size	Listen	Download
<input type="checkbox"/> USR_IN-from-1004-to-1009@2010-06-29-09-28-50.gsm	2010-06-29 09:28:50	49467 byte		
<input type="checkbox"/> USR_IN-from-1004-to-1009@2010-06-29-09-31-04.gsm	2010-06-29 09:31:04	26895 byte		
<input type="checkbox"/> USR_IN-from-1009-to-1004@2010-06-29-09-55-19.gsm	2010-06-29 09:55:19	9669 byte		

Page 1

Delete Selected Download Selected Copy to SMB Move to SMB Cancel

7.3 Music On Hold

You can set the voice to play during waiting the call. The voice file should be only mp3 or wav only. Go to menu Sounds -> Music On Hold, The screen will appear as picture below.

Music On Hold

[View Music-on-hold] [Add new Music-on-hold Group] [Upload Music] [Restart Service]

Group Name : Default Random : yes

Voice Prompt	Date	Time	Size	Listen
<input type="checkbox"/> 55533.wav	23/06/2010	00:25	27944 byte	
<input type="checkbox"/> macroform-the_simplicity.wav	15/09/2009	02:39	4464220 byte	
<input type="checkbox"/> song.wav	25/06/2010	09:25	2918198 byte	

Page 1

Delete Selected Cancel

Group Name : eng Random : yes

Voice Prompt	Date	Time	Size	Listen
<input type="checkbox"/> oh.wav	21/06/2010	11:51	3031963 byte	

Page 1

Delete Selected Cancel

You can create the group of music-on-hold by click at menu ‘Add new Music-on-hold Group’. The screen will show as picture below.

Music On Hold
[\[View Music-on-hold \]](#) [\[Add new Music-on-hold Group \]](#) [\[Upload Music \]](#) [\[Restart Service \]](#)

Add new Music-on-hold Group

Music-Group

Random

You can set the music-on-hold group separately to each group in the system whether each group has their own sound (eg. music, announcement, etc.).

Music On Hold
[\[View Music-on-hold \]](#) [\[Add new Music-on-hold Group \]](#) [\[Upload Music \]](#) [\[Restart Service \]](#)

Upload recorded files

Select Group

File to upload

File Name

After added new group, You should click ‘Upload Music ->Browse’ and select the file. You can change the filename by fill in the ‘File Name’ field. Then click ‘Upload’ button to upload to the system.

7.4 Backup Voice Record

There are 2 choices to back up the voice record; Manual Backup and Schedule Backup. Go to menu ‘Sounds -> Manual Backup or Schedule Backup’. These 2 choices have similar methods.

Manual Backup Voice Record

Backup Voice Record

****warning: backup record files will take a lot of resources on the IP-PBX and it may effect on the voice quality/performance on the system, please do it after working hour****

Backup Type:

Backup Location:

Create Backup Timer:

From:

From the picture above, these are the description of each fields.

- **Backup Type:** Choose the backup method to Copy or Move (If you selected Move, It will delete file out of the system. On the other hand, Copy method will not delete the file.)
- **Backup Location:** Choose the destination of backup file
 Local Harddisk : Keep the Backup on that Server, You can download that file from this page
 USB Harddisk: Keep the file to external USB Harddisk (You have to setup the External Storage to mount the USB Disk first)
 SMB Drive: Keep the file to the SMB Drive (You have to setup the network drive at External Storage first)
- **Create Backup Timer:** Set the time schedule to Backup automatically
- **From:** Specify the date and time period Backup for filter the voice file

The picture below is the example of Backup Voice record. You can choose the date from "From" then click "Create New Backup". The backup file will be created and display at "Last backups". You can download to your computer by click on Download link of each backup file.

Backup Voice Record

****warning: backup record files will take a lot of resources on the IP-PBX and it may effect on the voice quality/performance on the system, please do it after working hour****

Backup Type:

Backup Location:

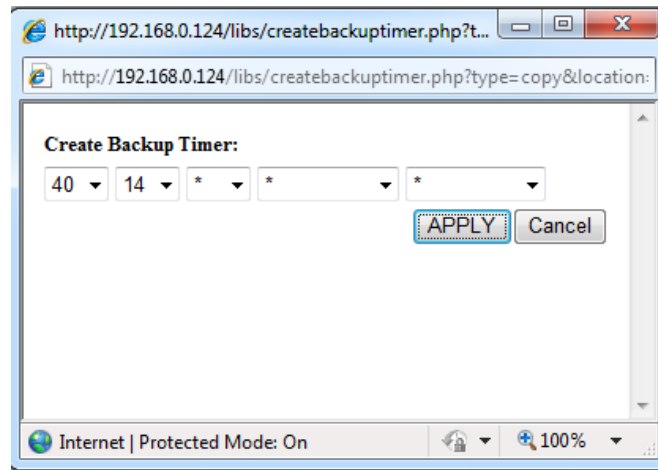
Create Backup Timer:

From:

Last backups

1283759009-2010-07-15.tar.gz [06/09/2010 14:43 123 byte] [Download](#) | [Removed](#)

This is the example of schedule backup. You have to click “Create Backup Timer”. It will display the popup screen as picture below. This screen allows you to specify the backup time; eg. Everyday at 14:40.



Schedule Backup

[schedule backup] [backup now] [LOG]

Backup Location

Status

backup every [help](#)

Backup type

File older than

Compress

- **Backup Location:** Choose the destination of backup file
 USB Harddisk: Keep the file to external USB Harddisk (You have to setup the External Storage to mount the USB Disk first)
 SMB Drive: Keep the file to the SMB Drive (You have to setup the network drive at External Storage first)
- **Status:** Select to enable or disable
- **Backup every:** Specify the date and time to Backup. You can go to help menu for example as the picture below.

[Schedule backup help](#)

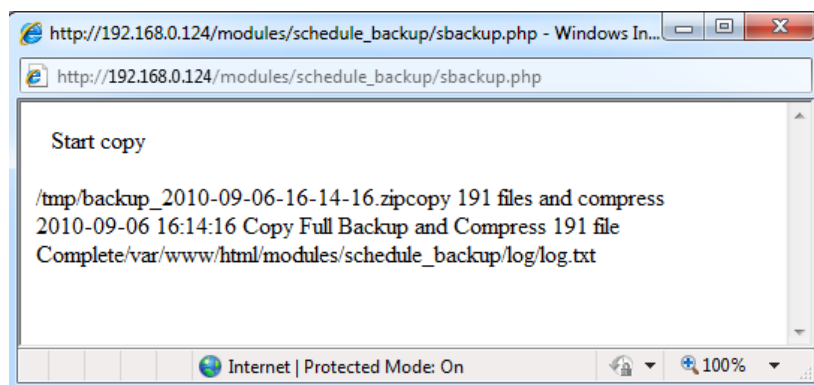
Minute	Hour	Date	Month	Day
set minute from 00 to 59	set hour from 00 to 23	set date of the month from 01 to 31	set month of the year January to December	set day of week Sunday to Saturday

[Example](#)

Config	Execution time
backup every 00 02 * * * *	02:00 am of every day
backup every 00 15 10 * * *	03:00 pm on the 10th of every month
backup every 30 18 15 February * *	06:30 pm on the 15th in February
backup every 30 * * * July Monday *	every hour at minute = 30 on every Monday in July

- **Backup type:** Choose the method to Backup
 - full backup – Backup all files
 - increment backup -Backup only the new file which never backup in the past
 - move - Backup the files and delete those files in the system
- **File older than** -Backup only the older than selected day.
- **Compress** Enable the compression for backup file. It will represent in zip file.
- **backup now** Click to create Backup file from the specified backup properties

After finished setup the external storage, you can go back to voice record backup, select the destination and click the backup button. It will display the popup screen as the picture below. This screen will show the status eg. Filename, quantity of the files, size, location, etc.



7.4 External Storage

This menu uses for setup the external HardDisk Drive for keeping voiceBackup (eg. USB Flash drive, USB External Harddisk and Network shared drive). There are 2 types.

1. SMB Network Drive

You can backup and store the files to the network shared drive by setup the drive at the Pextel IP-PBX first. Go to menu Advanced -> External Storage -> choose “SMB Network Drive”

External Storage

[[SMB Network Drive](#)] [[USB Harddisk Mount](#)]

SMB Network Drive

Check Current Mount

Server IP address

Mount at boot

Required Authentication

Shared Name **

Local Mount-Name

[APPLY](#)

[refresh](#)

[List Server](#)

Yes ▾

No ▾

Username Password

[List Shared](#)

/mnt/smb

Click at 'List Server' button to find the Computer which sharing the Drive on the network. It will display the pop-up window and list the name of shared drive's computer. Click on the "List Shared". It will display the pop-up window to specify the destination folder. Then click APPLY button to finish.

External Storage

[[SMB Network Drive](#)] [[USB Harddisk Mount](#)]

SMB Network Drive

Check Current Mount

Server IP address

Mount at boot

Required Authentication

Shared Name **

Local Mount-Name

[APPLY](#)

//192.168.0.25/temp on /mnt/smb type cifs (rw,mand) [refresh](#)

192 .168 .0 .25 [List Server](#)

Yes ▾

No ▾

Username Password

temp [List Shared](#)

/mnt/smb

2. USB Harddisk Drive

This is the method to setup the External HDD Drive to use with the backup system on Pextel IP-PBX. Go to menu Advanced -> External Storage -> choose "USB Harddisk Drive"

External Storage

[[SMB Network Drive](#)] [[USB Harddisk Mount](#)]

USB Harddisk Mount

*external harddisk must be format as FAT32

Current Mount

Harddisk device

Partition

[Detect harddisk](#) [Mount harddisk](#) [Umount harddisk](#)

Select Device ▾

Plug-in the USB Storage device (eg. USB Flashdrive or USB External Harddisk), Click Detect harddisk, select Harddisk device and Partition then click Mount harddisk to mount that device to the system.

External Storage

[[SMB Network Drive](#)] [[USB Harddisk Mount](#)]

USB Harddisk Mount

*external harddisk must be format as FAT32

Current Mount

Harddisk device

Partition

[Detect harddisk](#) [Mount harddisk](#) [Umount harddisk](#)

Disk /dev/sdb: 255 MB, 255327744 bytes ▾

/dev/sdb1 1 31 248976 6 FAT16 ▾

After click 'Mount harrdisk'. I will display as picture below.

External Storage

[[SMB Network Drive](#)] [[USB Harddisk Mount](#)]

USB Harddisk Mount

*external harddisk must be format as FAT32

Current Mount /dev/sdb1 on /ext_hdd type vfat (rw,uid=5060,gid=5060)

Harddisk device

Select Device

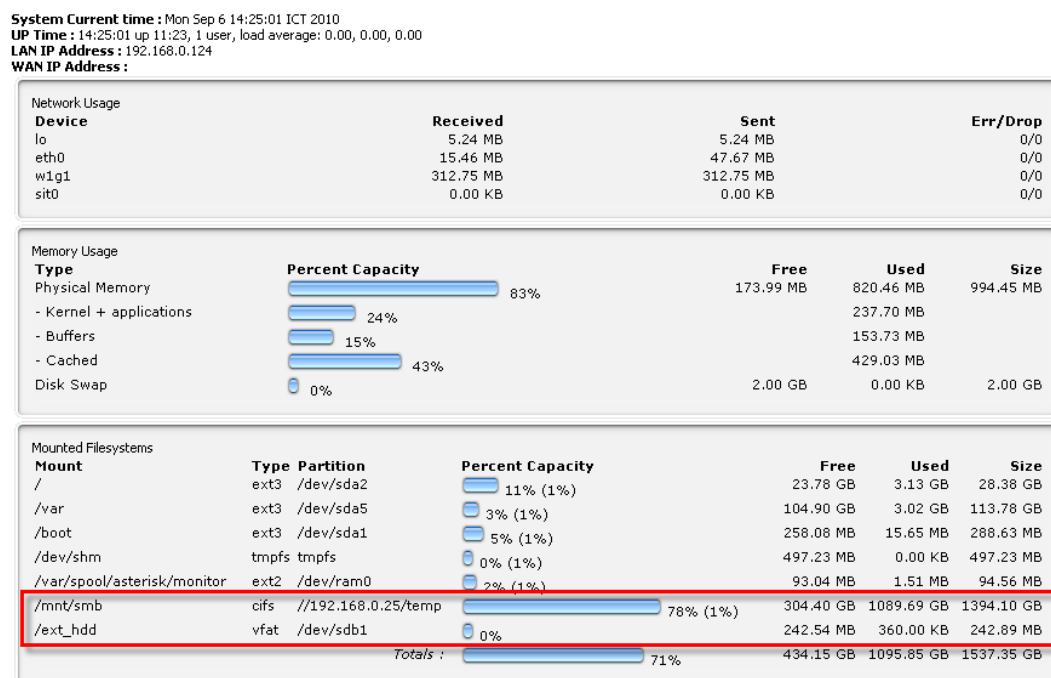
Partition

Detect harddisk

Mount harddisk

Umount harddisk

You can see the status of bothSMB andUSB Drive at Status -> System Status. It will display as picture below.



Chapter 8 Call Center

8.1 Queue and Agent Management

How to Create Call Center or Queue

Before start using Call Center feature in the PEXTEL IP-PBX system, You should design the flow of call. Eg. Set the incoming call and IVR, Type of call distribution.

Type of queue.

1. Agents login permanently and wait for the call with their headset until the call has come. Agents will listen to the music-on-hold all the time.
2. Agents can login/off by their phone. If there is any call to the call center system, It will ring at their phone.

How to create call-center agent

Go to menu Call Features >> Agents >> Create Agents



The screenshot shows a web interface titled "Agents Manager". Below the title are three links: "[View Agent]", "[Create Agents]", and "[Advanced Config]". The main section is titled "Add Agent" and contains four input fields: "Agent ID", "Agent Admin Password", "Agent Name", and "Agent Group Number". Each field has a corresponding text input box. At the bottom of the form is an "APPLY" button.

Agent ID: Number to identify agent for logging into the system.

Agent Admin Password: Password for logging into the system.

Agent Name: Specify the agent's name. (Optional)

Agent Group Number: Specify the group number of agent.

Then click APPLY to create agent

How to createQueue

Go to menu Call Features >> Queue >> Create Queue

Queue Manager
[\[View Queue \]](#) [\[Create Queue \]](#)
Add Queue

Queue Name	<input type="text"/>
Announce	None ▾
queue-thereare	None ▾
queue-callswaiting	None ▾
queue-holdtime	None ▾
queue-seconds	None ▾
queue-youarenext	None ▾
queue-thankyou	None ▾
Allow direct call From this queue	no ▾
Music On-Hold	Default ▾
Ring Strategy	ringall ▾
Auto Pause Agent ?	no ▾
Service Level Statistics (sec) ?	0
Agent Ring Timeout (sec) ?	15
Enable Ring Timeout Reset **BETA** ?	no ▾
Enable Ring when SIP Agent in "INUSE" state ?	no ▾
Retry all agents ring wait time (sec) ?	5
Queue Weight (higher the better)	0
Agent Rest Time (sec) ?	0
Maximum Queue Size (0-infinity)	0
Report Hold time to Agent ?	no ▾
Announce Queue Information Every (sec)	60
Announce Estimate Hold Time To Caller	once ▾
Recording Format	gsm ▾
Allow user to enter queue when no AGENT	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Strict
Remove Caller from queue when no AGENT	<input type="radio"/> Yes <input checked="" type="radio"/> No

Agent Members (Add Multiple)
 Select Agent Members

None ▾
None
Agents
SIP
Dahdi

Queue Name: Specify the Queue name

Announce: Play the sound prompt before coming to the queue

Allow direct call from this queue: Enable to allow dialing to specific extension from user's dial pad while waiting the call. (This menu has to setup to 'Incoming call' and 'Call control' first.)

Music On-Hold: Specify the sound prompt to be the music-on-hold while waiting the call in the Queue

Ring Strategy: Type of call distribution to agents.

Ringall : Ring every active agents at the same time.

Roundrobin: Ring each agent as loop.

Leastrecent: Ring the agent who has longest free-from-receive period first.

Fewest calls: Ring the agent who has fewest received the callfirst.

Random: Ring randomly.

Rrmemory: Ring as loop and remember the last position of agent then go ahead.

Auto Pause Agent:Pause Agent automatically if he doesn't answer the call in time.

Agent Ring Timeout: Set the expire time for ringing

Enable Ring when SIP Agent in "INUSE" state: Allow call waiting during call

Retry all agent ring wait time:Set the time for waiting until skip to other agent.

Agent Rest Time: Set a break time foragent in case that agent receives too many calls. (Specify in second)

Maximum Queue Size (0-infinity): Set the maximum incoming call to this queue in the same time

Report Hold time to Agent:Enable system to say number of waiting call in the queue

Announce Queue Information Every (sec): Enable system to say information of the queue every minute during waiting call.

Announce Estimate Hold Time To Caller: Enable to tell the estimate time for waiting the call for people who waiting in the queue

Recording Format: Set the file format of voice recording

Allow user to enter queue when no AGENT: Enable incoming call to the queue incase the agent has not logged in.

Remove Caller from queue when no AGENT:Enable to decline every call in the queue in case every agent logged out.

Agent Members (Add Multiple): Add member or agent to this queue. Agents can be 3 types.

Type of agents

1. Specific SIP extension: This type suits for the system which has not too much agent in the system.
2. Agent login: This type suits for the system which has too much agent in the system. Agents have not to sit at their phone permanently. Agents can login/off by their phone.
3. External line: Agent can be the people who are not sit in the office (may be mobile phone or other sites)

To setup priority of agent is the easy way to manage the skill of agent who has their specific skill (eg. Language or performance of that agent)

Agent and Queue management and monitoring

Go to menuReport >> Realtime Agent Status

Agent Status

Manual Agent CallBack Login

Select Agent : 102 Select Extension : 9009 Ackcall : false WrapupTime : 5

Queue	Agent	Agent Name	LoginChannel	Status	Talk to	Penalty	Call Taken	Last State (sec)	Last Call	LoggedInTime	Paused	
Queue_SIP	Sip/9009	-	-	Not in use	-	1	0	0 secs	00:00:00	-	YES	
Queue_SIP	Sip/9008	-	-	Not in use	-	1	0	0 secs	00:00:00	-	NO	
Queue_Agent	Agent/102 John	n/a	n/a	Unavailable	n/a	1	1	55 secs	13:42:48	00:00:00	NO	
Queue_Agent	Agent/101 Peter	n/a	n/a	Unavailable	n/a	1	0	0 secs	00:00:00	00:00:00	NO	

Busy/Paused
 In use
 Ringing
 Not in use
 Unavailable,Invalid

From the picture above, there are 2 queues using in this system.

Queue_Agent has 2 members (101 and 102) and Status is Unavailable. The status tab shows in grey colored. It means that agent has not logged in to this queue.

Queue_SIP has 2 members (9008 and 9009). We have not use agent with this queue. But we fix the extension to this queue. The green colored tab shows online status of that extension and ready to receive a call. If the tab shows red colored, it means unavailable.

Administrator can do 'Manual Agent CallBack Login' for the agent at this page by selecting agent number and extension number. Then click 'login' button.

Login Channel: shows the extension number that agent logged in (only agent login type)

Status: There are 4 types of status.

- Not in use (green colored)
- In use (or Busy)
- Take To : shows talking agent number
- Priority : shows the importance of this call

Call Taken: amount of incoming call (It will be reset to be zero when reloaded)

Last State (sec) : free time gap from last call (start with 1 when hung-up)

Last Call: Call duration of last call

LoggedInTime : Last agent login time (Only agent login, not include SIP agent)

Pause: You can do 'Pause' when you would like to avoid receive the call no matter you are logged in until you do 'unpause'. There are 2 ways to do.

1. Agents pause his number by himself. (See how to press the dial pad at menu Call Features >> Feature Code/System Setup)
2. Pause from web interface (individual agent pause)



3. Pause all agent from each queue
4. UnPause: cancel pause individual agent
5. UnPause All: cancel pause agent from each queue
6. Logoff : click to Logoff that agent

At menuReport >> Realtime Queue Status

This screen shows the real time status of queue. You can select the queue from dropdown box above.

Queue Summary shows basic status of the Queue

Queue Details shows agent status of the Queue (both logged-in and not logged-in)

Queue Status

[\[Queue Summary\]](#)
[\[Queue Details\]](#)
[\[Selected Queue Details\]](#)

Select Queues : Queue_Agent ▼

Queue Name : Queue_Agent

Call Limits	Waiting Calls	Average Hold Time	Call Complete	Abandoned Call	Ring Strategy	Service Level	Service Level Perf	Weight
0	1	17	0	0	leastrecent	0	0.0	0

Queue Members

Name	Agent Name	LoginChannel	Membership	Penalty	Calls Taken	Lastcall	Status	Paused
Agent/102	John	SIP/9009-00000000e	static	1	0	00:00:00	Busy	NO
Agent/101	Peter	n/a	static	1	0	00:00:00	Unavailable	NO

Current Waiting Calls

Position	Channel	CallerID	CallerIDNAME	Waiting Time
1	SIP/9008-00000000d	9008	9008	00:01:17

● Busy/Paused
 ● In use
 ● Ringing
 ● Not in use
 ● Unavailable, Invalid

Inbound Queue Report

[\[View\]](#)
[\[Setting\]](#)

Start date 2010-09-14 End date 2010-09-15

Select Queue Queue_SIP View

Queue Name **Queue_SIP**
 Total Incoming Calls **1**
 Bangkok **0**
 Mobile **0**
 Others **1**

CONNECT 1
 ABANDON 0
 EXIT 0

Agent Number	Total Receive Call From Queue	Total Transfer Calls	Internal Transfer	External Transfer
SIP/9007	1	1	0	1
SIP/9008	0	0	0	0

List of "Internal & External Transferred To" extensions

Extensions	Total
DAHDI/3	1

☐ Internal Transfer
 ☒ External Transfer

At menu Report >> Queue Statistic Report

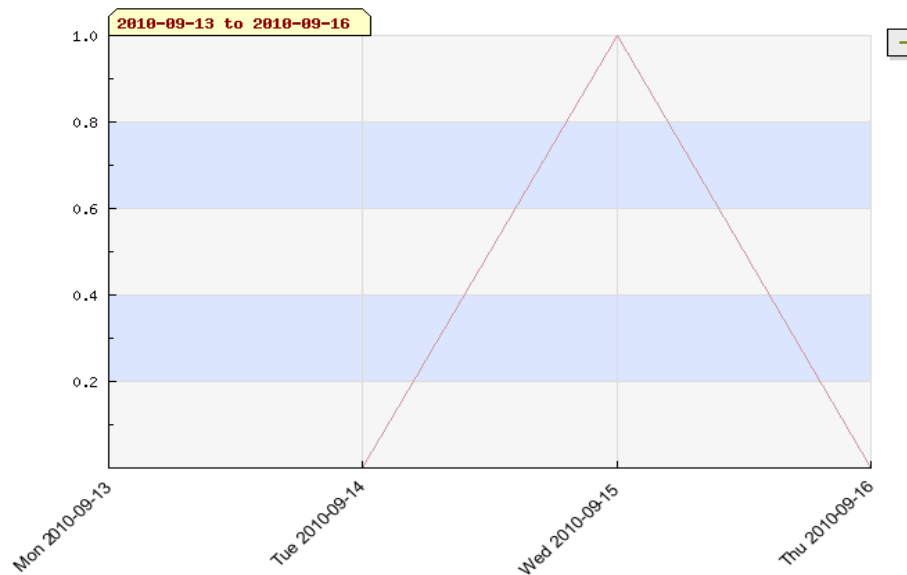
This menu uses for display the statistic of incoming call to each queue. You can filter the time for each period. It can report as monthly, daily and display in graph for each agents.

Queue Statistic Report

Show : Date End Date Select Queue :

Start time :2010-09-13
End time :2010-09-16
Type :Days
Queue name : Queue_Agent

Agent	Queue name	Mon 2010-09-13	Tue 2010-09-14	Wed 2010-09-15
Agent/101	Queue_Agent	0	0	1
Agent/102	Queue_Agent	0	0	1
ABANDON	Queue_Agent	0	0	0
TOTAL	Queue_Agent	0	0	2



8.2 Customer Satisfaction Report

This feature uses for evaluate the quality of service of agents. The concept of this feature, Agents have to transfer a customer's call to this feature. It will play the sound to advice customer to give the score in range. After customer press number, the system will play goodbye sound and hung-up.

Go to menu Report → Customer Satisfaction Report → Setup. The screen will show as picture below.

Customer Satisfaction Report

[\[Summary \]](#)
[\[Details \]](#)
[\[Setup \]](#)

Score Range:

Clean All Data:

From the picture above, we can set the score range (eg. 1-5 or 1-9)

Next, Goto menu Call Feature → Customer Satisfaction Report Setup, The screen will show as picture below.

Number:Specify the number to use with this system. (Beware of duplication with extension or call-feature)

Greeting Sound: Select the greeting sound prompt to use with this system. (Eg. “Please give the score for this service. Excellent press 1. Good press 2.....)However, you can create the sound prompt at topic 7.1 Create Voice

Goodbye Sound: Select goodbye sound prompt to play after press button. (Eg.” Thank for participation, Thank you”)

Confirmation Sound: Select sound prompt for confirmation (Eg. “You choose 5. Press 1 to confirm”)

Language: Choose the language (It will choose at sound prompt)

Required Confirmation: Enable to use confirmation for each selection.

Repeat this menu for NO-input (times):Specify the repeat time whether customer has not press the button in time.

After we set up this feature, You can see the score statistic of each agent by go to menu Report → Customer Satisfaction Report → Detail. The score will show in GPA.

CHAPTER 9 VirtualFAX System

This chapter will describe about the fax system in the Pexstel IP-PBX. The fax feature in the Pexstel IP-PBX uses virtual fax technology. You can send, receive, backup, forward and manage easily from web-interface in the PDF format.

9.1 Add virtual fax

You have to setup the virtual fax machine in the system first. Go to menu FAX>add virtual fax

Pexstel System:

Show All | Close All

- Status
- Report
- Group Manager
- Extensions
- Fax** ← 1
- Call Control
- Call Features
- Sounds
- Incoming Call
- Outgoing Call
- Schedules
- IVR
- Site to Site Setup
- Manual Config
- Voice Interface
- Log
- Advanced

Virtual FAX Device Setup

[Edit virtual FAX Device] [Add virtual FAX Device] [Fax Status]

<input type="checkbox"/>	Fax name	Fax group name	Fax phone number	Local identifier	Number of ring before answer	Fax type	Default fax email address	Edit
Page Delete Selected								

Pexstel Enterprise Version 2

Click at 'Add virtual FAX Device', the screen will show as picture below.

Virtual FAX Device Setup

[Edit virtual FAX Device] [Add virtual FAX Device] [Fax Status]

Fax Properties

0. Fax name:

1. Fax Group Name (for Outgoing FAX): [Add](#)

2. Fax Phone Number:

3. Local Identifier (Company Name):

4. Number of Rings before answer:

5. Fax Type:

7. Forward fax to Internal Users

<input checked="" type="checkbox"/> 1002	<input checked="" type="checkbox"/> 1003	<input checked="" type="checkbox"/> 1006	<input type="checkbox"/> 9001	<input type="checkbox"/> 1009	<input type="checkbox"/> 3000	<input type="checkbox"/> 3001
<input type="checkbox"/> 3002	<input type="checkbox"/> 3003	<input type="checkbox"/> 3004	<input type="checkbox"/> 1007	<input type="checkbox"/> 1005	<input type="checkbox"/> 9009	<input type="checkbox"/> 9008
<input type="checkbox"/> 9007	<input type="checkbox"/> 9006	<input type="checkbox"/> 9005	<input type="checkbox"/> 9004	<input type="checkbox"/> 9003	<input type="checkbox"/> 9002	

Fax name:Specify the name of this virtual fax device.

Fax Group Name (for Outgoing FAX):Select the user group of this fax device.

However, you have to create the group at the first time by select new in the dropdown box and specify the group name.

1. Fax Group Name (for Outgoing FAX) new ▼ [Add](#)

Then click add, the new group name will be added to the dropdown box. So, you have to select it again.

1. Fax Group Name (for Outgoing FAX) internal ▼ [del](#)

FAX phone number:Specify the phone number of this virtual fax device

Local Identifier (company name):Specify the company name

Number of ring before answer: Select the number of ring time for receive the fax

Fax Type:Select the fax type

Internal: This is the virtual fax device using in within the system.

External: This is the virtual fax device using with other system. Eg.Sending fax outside by PSTN or VoIP.

In case of selected External fax, It will appear the textbox to enter default fax email address.

5. Fax Type external ▼

Fax Routing

6. Default Fax email address

Forwards fax to internal users: Select the extension to forward the fax whenever the system received the fax.

After finished setup virtual fax device, click at view virtual fax. You will see the detail of that virtual fax device. (normally, it will show 'running and idle')

Virtual FAX Device Setup

[\[Edit virtual FAX Device\]](#) [\[Add virtual FAX Device\]](#) [\[Fax Status\]](#)

<input type="checkbox"/>	Fax name	Fax group name	Fax phone number	Local identifier	Number of ring before answer	Fax type	Default fax email address	Edit
<input type="checkbox"/>	Fax_test::2	external	1008	poise	1	external		

Page 1 : [Delete Selected](#)

You can see the real-time status of the fax by click at 'Fax Status'

Virtual FAX Device Setup

[\[Edit virtual FAX Device\]](#) [\[Add virtual FAX Device\]](#) [\[Fax Status\]](#)

Fax Status

Modem	Status
test_internal (1009):	Running and idle
Fax_test (1008):	Running and idle

JID	User	File	Destination	Page	Dials	TTS	Status	[x]
-----	------	------	-------------	------	-------	-----	--------	-----

In case of using internal fax, you have to know the fax prefix of that number by go to menu call features>feature codes.

Features Code / System Setup

Call Center Code

Agent Login (permanent)	*	9	
Agent Callback Automatic Login/Logoff	*	45	
Agent Callback Login	*	40	
Agent Callback Logoff	*	41	
Pause Agent Prefix	*	42	
UnPause Agent Prefix	*	43	
Transfer to Agent Prefix		44	
Whisper	*	97	
Private Whisper	*	98	
Channel Spy	*	99	Password: 1234

Call Parking

Parking Number	700
Parking Position	701 - 720
Max Parking Time	120
Transfer digit timeout	3

Features Key Mapping

Features digit timeout(ms)	3000	
Call Pickup	*	8
Extensions Pickup	*	*
Blind Transfer	#	1
Attend Transfer	#	2
Disconnect	*	0
One Touch Record	*	3
Voicemail		100
Phone Lock		99
Roaming Station Register / Dial-Out Prefix	*	**
Fax Prefix		33


Features Key Mapping

CUSTOM1	*		Enable <input type="checkbox"/>
<input type="button" value="APPLY"/> <input type="button" value="Cancel"/> <input type="button" value="Restore Default"/>			

You would like to send fax to number 1003 and fax prefix is '33'. You have to press '331003' to get fax to of 1003)

Internal user who would like to use fax, they have to enable the fax mailbox by go to menu extension and click edit that extension.






Internal user who would like to use fax, they have to enable the fax mailbox by go to menu extension and click edit that extension.

Plextel System: 

Extension Manager
[\[View Extensions \]](#) [\[Add SIP Extension \]](#) [\[Add Multiple SIP \]](#) [\[Add IAX Extension \]](#) [\[Add Analog Extension \]](#) [\[View All, Add Follow-Me Extension \]](#)

Display 1 - 30 From 30
 20
 Extension Import Browse... Data Import Extension Export

Page 1

Number	Type	Group	Pickup Call From	BLFI/RO/R/INT	Lang	AP	Phone Type	DID	Followme	Roaming	User Email	Vmail	FAX mailbox	Edit
1000 : on Thousand	sip	Default:Default:Default		✓	✓	✓	Thai	x	none	-	x	nicrora@hotmail.com	✓	
1001 : two	sip	Default:Default:Default	Default:Default:Default	poise:eng:test1234	✓	✓	Thai	✓	snom360	✓	x	email@company.com	✓	
1002 : 1002	sip	Default:Default:Default	Default:Default:Default	poise:eng:test1234	x	✓	Thai	x	none	-	x		✓	
1003 : 1003	sip	Default:Default:Default	Default:Default:Default	poise:eng:test1234	x	✓	Thai	x	none	-	x		✓	
1004 : 1004	sip	Default:Default:Default		✓	✓	✓	Thai	x	snom300	-	x		✓	

Go to 'enable the fax mailbox' and change to 'Yes'

Fax Mailbox

Enable Fax Mailbox :

Send Fax Message Notification To Email :

Attached Fax File To Notification Email :

Send Voicemail Notification For Incoming Fax :

Fax Mailbox Size :

To send fax, you can do it by logged in to system and go to menu 'Message Center>FAX'

PLEXTEL SYSTEM

Welcome Admin Administrator Level

Home | Phone Books | Call Details Record | **Message Center** | CRM | Logout

Message Center

[Voicemail] [Call Record] [Fax] [SMS]

[Fax] [Send fax] [FAX Status]

Sender(TSID): All Start Date: End Date: SEARCH

Delete Selected

Page 1:

Type	Device	Filename / Status	Date	From (CallerID)	Sender (TSID)	To	Size (Kb)	Download	View	Forward
Outgoing	test_internal	test_page_03957-from-55555.pdf status::No local dialtone; too many attempts to dial<333>	2010-07-01 14:36:39	55555	Admin	15	3.24			
Internal		hahaha_6V04Z-from-55555_6LQ91_50WUI.pdf	2010-06-28 13:41:48	1006	Admin	1005	3.24			
Internal		fax000000041-from-1234567890_RYOBG.pdf	2010-06-28 13:41:46	55555	1234567890	1006				
Internal		hahaha_6V04Z-from-55555_6LQ91.pdf	2010-06-28 13:40:23	55555	Admin	1006	3.24			
Internal		fax000000046-from-1234567890_LCEYR.pdf	2010-06-28 13:39:24	55555	1234567890	1006				
Internal	test_internal	fax000000046-from-1234567890.pdf	2010-06-25 15:13:55	unknown	1234567890	1007	27.06			
Internal	test_internal	fax000000045-from-1234567890.pdf	2010-06-25 15:11:51	unknown	1234567890	1001	27.52			
Outgoing	test_internal	wd_PS4YG-from-55555.pdf status::No local dialtone; too many attempts to dial<333>	2010-06-25 15:04:48	55555	Admin	1009	3.24			
Outgoing	Fax_test	hahaha_6V04Z-from-55555.pdf status::Complete<0>	2010-06-25 14:55:54	55555	Admin	11	3.24			
Outgoing	test_internal	test_E53VY-from-55555.pdf status::**** Warning<347>	2010-06-25 14:53:26	55555	Admin	11	31.01			
Outgoing	test_internal	test_03EST-from-55555.pdf status::**** Warning<347>	2010-06-25 14:52:54	55555	Admin	11	31.01			
Incoming	Fax_test	fax000000042-from-1234567890_6R5KH.pdf	2010-06-25 14:51:12	unknown	1234567890	Admin	26.74			
Incoming	Fax_test	fax000000042-from-1234567890_ZIU1T.pdf	2010-06-25 14:51:12	unknown	1234567890	1002	26.74			
Internal	test_internal	fax000000041-from-1234567890.pdf	2010-06-25 11:51:18	1009	1234567890	1002	27.41			
Internal	test_internal	fax000000027-from-1234567890.pdf	2010-06-24 16:39:56	1009	1234567890	1000	23.79			
Outgoing	All	2223_D74KH-from-55555.pdf status::Unknow<>	2010-06-23 04:40:38	55555	Admin	777	230.8			
Outgoing	All	2223_D74KH-from-55555.pdf status::Unknow<>	2010-06-23 04:40:34	55555	Admin	666	230.8			
Outgoing	All	2223_D74KH-from-55555.pdf status::Unknow<>	2010-06-23 04:40:30	55555	Admin	555	230.8			

Delete Selected

Page 1:

Plextel Enterprise Version 2

You can see the detail of fax pages at this page and also download to your machine or forward that page to other user (also outside)

To send fax by virtual fax device, you can go to menu 'Send fax'. The screen will show as picture below.

Message Center

[Voicemail] [Call Record] [Fax] [SMS]

[Fax] [Send fax] [FAX Status]

Sending fax

Select file to fax :	C:\Users\intania86\Documen	Browse...	Upload
New file name (English Only) :	manual		
	Upload file	Preview	Del

Destination fax number : 12

Fax device : Fax_test::ttyIAX2

Use cover page : no

Priority : normal 127

Retries (times) : 1

Resolution : normal

Select file fax:Browse the file from your computer (only in PDF format)

New file name(English Only): Specify the filename (only in English)

After that, you have to click upload button and wait until the table show the filename of that document.

Select file to fax :	C:\Users\intania86\Documen	Browse...	Upload
New file name (English Only) :	manual		
	Upload file	Preview	Del
	manual_43STP.pdf	Preview	Del

Destination Fax Number:Specify the phone number of destination (you have to put some prefix or dial-pattern here)

Fax Device:Select virtual fax device

User cover page: Enable to use fax cover. If you selected 'yes', it will appear some form to edit fax cover as picture below.

Use cover page : yes

To :

Company :

From(CallerID) :

Subject :

Note :

Priority:Select the level of importance of this fax. There are 4 levels; Junk / Low / Normal / High. Normally, We use normal level.

Retries (times):Number of retry time whether it occurs error.

Resolution:Select the resolution of document.

During sending fax, you can see the real-time status of that fax by go to menu 'Fax status'. It will open a pop-up window as picture below.

Fax status

JID	User	File	Destination	Page	Dial	TTS	Status	[x]
43	Admin	manual_3RDVQ-from-55555.pdf	12	0:1	0:12			[x]

You can forward the fax to other receiver by go to menu 'forward' and select the extension (receiver) then click forward button.

Forward fax to Internal Users

<input type="checkbox"/> 1001	<input type="checkbox"/> 1002	<input type="checkbox"/> 1003	<input type="checkbox"/> 1006	<input type="checkbox"/> 9001
<input type="checkbox"/> 1009	<input type="checkbox"/> 3000	<input type="checkbox"/> 3001	<input type="checkbox"/> 3002	<input type="checkbox"/> 3003
<input type="checkbox"/> 3004	<input type="checkbox"/> 1007	<input type="checkbox"/> 1005	<input type="checkbox"/> 9009	<input type="checkbox"/> 9008
<input type="checkbox"/> 9007	<input type="checkbox"/> 9006	<input type="checkbox"/> 9005	<input type="checkbox"/> 9004	<input type="checkbox"/> 9003
<input type="checkbox"/> 9002				

Chapter 10 CallerID Routing & Call Back

10.1 CallerID Routing is the menu to manage the incoming call to any destination. This feature will detect the Caller-ID whether it matched to the condition. You can set the condition by go to menu Call Features >> CallerID Routing.

CallerID Routing
[\[View Routing Rules \]](#) [\[Add New Rules \]](#) [\[Default Rule \]](#)

Rule Name : default

Destination: noneselected ::

First, you have to create new rule by click at 'Add new rule' and specify the rule name. From the picture below, we specify the rule name to be 'test_CID'. The destination is extension 1000. That means, this rule will be route to extension number 1001. Then click apply button.

CallerID Routing
[\[View Routing Rules \]](#) [\[Add New Rules \]](#) [\[Default Rule \]](#)

Add New Rules

Group Name

Rules Name

Destination

After click finish, the screen will show as picture below.

Group Name : test_CID

Rule Name : test_CID

Destination: extension :: 1000

No.	CallerID	Note	Edit	Delete
[Add New CallerID]				

Then specify the CallerID number to this rule by click 'Add New CallerID'.

Group Name : test_CID

Rule Name : test_CID

Destination: extension :: 1000

No.	CallerID	Note	Edit	Delete
1	026568598	poise		
2	026568597	poise	<input type="button" value="add"/>	<input type="button" value="cancel"/>

[\[Add New CallerID\]](#)

You can specify the CallerID and click Add button to add number into system. when finished, you have to click Apply button. The screen will show as picture below.

After finished these settings, the incoming call; which CallerID matched to the settings; will be route to the specified destination (Extension 1000).

You can apply this feature for the agent who is the steady customer. He will have the hotline to this agent.

CallerID Routing
[\[View Routing Rules \]](#) [\[Add New Rules \]](#) [\[Default Rule \]](#)

Rule Name : default
Destination: noneselected ::

Group Name : test_CID
Rule Name : test_CID
Destination: extension :: 1000

No.	CallerID	Note	Edit	Delete
1	026568598	poise		
2	026568597	poise		

[\[Add New CallerID\]](#)

APPLY **Cancel**

Then configure Incoming Call

Incoming Call
[\[View Incoming Call \]](#) [\[Add New Incoming Call \]](#)

Add Incoming Call

Trunk trunk:dahdi:test ☐ PABX-link

Description

Support DID no

Replace CallerID

Extensions Ring Timeout(sec) 40

Enable CallerID-Based Routing Service test_CID

Add time based handler

Actions

When * Working_Time **Destination*** ivr

Value tttttt

Remove

APPLY **Cancel**

From the picture above, Every incoming call will check the rule from CallerID Routing. If it matched to any rule, It will go to that destination. If not, it will follow the rule at incoming call(Actions).

10.2 Call Back

Call Back is a function for automatically call back. This feature will check the CallerID of the customer whether it matched to any rule in the CallerID routing. It will hang –up the customer call and call the customer back automatically; to reduce customer’s payment.

To use call back feature, You have to set up CallerIDRouting , Outgoing Call, Incoming Call, and Call Control.

1. Create Call Back by go to menu Call Feature > Call Back > Add New Rules

Call Back

[Call Back Rule] [Add New Rule] [Add Web Call Back] [Call Back Properties]

Add New Rule

Rule Name

Description

Select IVR to Play

Specify the Call Back name and select IVR. Then click APPLY button. The screen will show as picture below.

Call Back

[Call Back Rule] [Add New Rule] [Add Web Call Back] [Call Back Properties]

<input type="checkbox"/>	Rule Name/Web Rule Name	Description	IVR to Play	WEB	Web URL	Edit
<input type="checkbox"/>	test_callb	call back testing	business time	-	-	

****This Features must be used in combination with the Incoming Call rules or CallerID Routing rules and Outgoing Route on Call Control Page****

2. Create Caller ID Routing to check CallerID from incoming call whether it matched to the group of Call Back feature by go to menu Call Feature > Caller ID Routing > Add New Rules

CallerID Routing

[View Routing Rules] [Add New Rules] [Default Rule]

Add New Rules


Group Name



Rules Name

Destination Value

















Select
 NONE (go to next priority)
 Group
 Extension
 IVR
 Voicemail
 Conference
 Queue
 Custom Application
Call Back
 Fax

Then go to AddNew Rules and select function for destination. When the CallerID matched to the rule, It will transfer that call to the destination. In this case, we set the destination to Call Back feature. Then click APPLY button. You will get the table of CallerID Routing as picture below.

Rule Name : default 
Destination: ivr :: demo

Group Name : test_cb
Rule Name : pstn_  
Destination: callback :: test_callback

[DataImport](#) [CallerID Routing Export](#)

No.	CallerID	Note	Edit	Delete
1	10001			
2	10002			
3	10003			
4	10004			
5	10005			
6	10006			
7	10007			
8	10008			

[\[Add New CallerID\]](#)

[APPLY](#) [Cancel](#)

From the picture above, we have added CallerID number 10001 to 10008. Whenever number 10001 – 10008 call to the system. It will hung-up and enter Call back feature.

3. Setup Incoming Call and Enable CallerID-Based Routing Service to check the CallerID and rules. If that caller ID follows the rule, it will hang-up and call back automatically. From this example, we enter the call back feature with IVR.

Incoming Call

[\[View Incoming Call \]](#) [\[Add New Incoming Call \]](#)

Add Incoming Call

Trunk trunk:dahdi:pstn_test ☐ PABX-link

Description

Support DID no

Replace CallerID

Extensions Ring Timeout(sec) 40

Enable CallerID-Based Routing Service test_cb

[Add time based handler](#)

Actions

When * All_Time **Destination*** Custom Application

Value aaa test **aaa**

[Remove](#)

4. SetupOutgoing Call for call out. Egcall to02-xxx-xxxx or08-xxxx-xxxxfrom CallerID Routingfeature. We can set theOutgoing Call at menu Outgoing call > Add New Outgoing Call

OutGoing Call

[View Outgoing] [Add New Out Going Call]

Outgoing Route Information

Route Name	pstn
Route Description	
Route Password	

Time Based Call Routing

Default Route

Enable	No.	Trunk / Group	Default Outgoing Number	Dialing Prefix	Digit to Strip	dialing option
<input checked="" type="checkbox"/>	1	trunk%%dahdi%%pstn_test				T

☒ Enable
 Trunk:
 Default Outgoing Number:
 Dialing Prefix:
 Digit to Strip:
 Dialing Option:

Call Patterns

Call Prefix	<input type="text"/>
Destination Pattern	02.
Destination Pattern2(optional)	08.
Destination Pattern3(optional)	
Dial Timeout	40
Concurrent Call Limit for this trunk	100
Strict Time Routing	<input type="button" value="no"/>
Support DID With This Route	<input type="button" value="no"/>

5. Set the permission at Call Control to allowOutgoingCallforCallBackas picture below

Call Control

Group Name	Default:Default:Default	SALESALESALE	TESTTESTTEST	pstn	SATSCORE	virtual-engineer	agent.blf_status	conference	parkcalls	test	Paging-555
All Group	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Default:Default:Default	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SALE:SALE:SALE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TEST:TEST:TEST	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
call_center	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
business time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
fax_test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
test_callb	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

We can also use Call Back feature from Web User Interface for enter the phone number and call back to that number.

To Setup Web Call Back, go to Web Call Back at menu Call Feature > Call Back > Add Web Call Back. Then specify Web Rules Name. The system will create the URL Link. You should select the IVR to use when call back. Then click Apply button.

Call Back

[[Call Back Rule](#)] [[Add New Rule](#)] [[Add Web Call Back](#)] [[Call Back Properties](#)]

Add Web Call Back

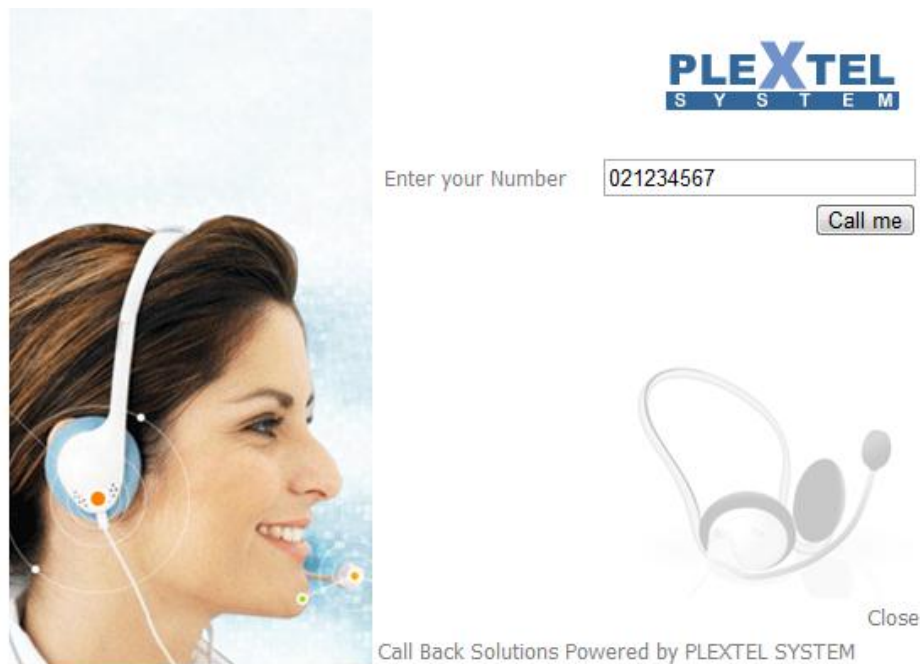
Web Rules Name

Web URL

Select IVR to Play

Enable CAPTCHA

From this example, We get URL Link
[:http://192.168.0.126/callback/web_call_b.php](http://192.168.0.126/callback/web_call_b.php) We can go to this page and enter our phone number for automatic call back.



10.3 External Database Connector

Go to menu Call Features >> External Database Connector and choose New Connector

External Database Connector
[\[List Connector \]](#) [\[New Connector \]](#)

New Connector

Connector Name

Description

Database Type

Server IP Address

Username

Password

APPLY

Connector Name : Specify name

Description : Specify the description

Database Type : Select database type

Server IP Address : Specify IP-Address of database server (or you can fill 'localhost' to connect internal database)

Username :Specify username of the databaseserver

Password : Specify password of the database server

Then click apply button.

There 2 types to query database

1. Automatic SQL Query

Database Name : Choose database

Table Name : Choose database

Request Field Name : Choose field name

Compare Field Name : Choose field to compare

Request Value : Input the test value (for testing)

Automatic SQL Query

HOST : localhost

Database Name: Table Name: Request Field Name: Compare Field Name: Request Value:

After select database, table and field, you can test by input the data into Request Value and press TEST button. The system will bring those Request Value to compare with field name and return the request field name to show on the screen.

2. Manual SQL Query Command - Input SQL query string by yourself.

Manual SQL Query CommandRequest Value 1 %CMP1%Request Value 2 %CMP2%Request Value 3 %CMP3%



You can take a quick look for key feature code at Help menu on the top right of the

Features Code	
Call Center Code	
Agent Login (permanent) :	# 9
Agent Callback Automatic Login/Logoff :	# 4 5
Agent CallBack Login :	# 4 0
Agent CallBack Logoff :	# 4 1
Pause Agent Prefix :	# 4 ABC 2
UnPause Agent Prefix :	# 4 DEF 3
Transfer to Agent Prefix :	4 4
Whisper:	* 9 PQRS 7
Private Whisper :	* 9 TUV 8
Channel Spy :	* 9 9
Call Parking	
Parking Number :	PQRS 7 0 0
Parking Position :	PQRS 7 0 1 - PQRS 7 ABC 2 0
Max Parking Time :	1 ABC 2 0
Transfer digit timeout :	DEF 3
Features Key Mapping	
Features digit timeout(ms) :	DEF 3 0 0 0
Call Pickup :	* TUV 8
Extensions Pickup :	* *
Blind Transfer :	# 1
Attend Transfer :	# ABC 2
Disconnect :	# 0
One Touch Record :	# DEF 3
Voicemail :	1 0 0
Phone Lock :	9 9
Roaming Station Register / Dial-Out Prefix :	* * *
Fax Prefix :	* DEF 3

screen