

How to integrate VOI-8002 with VOI-9300

Scenario: You have a VOI-9300 IP PBX, but it only has 4 FXO ports for On-Net or Off-Net calls. You want to increase the number of FXO port but do not want to wreck out the installed VOI-9300.

Solution: This guide will teach you how to Integrate 8 FXO ports that VOI-8002 has with the VOI-9300. The end user will make VOIP or PSTN call seamlessly.

Topology:

VOI-9300 connects to Internet with static IP (in this case, 61.31.189.162) VOI-8002 configures it's WAN a static IP of VOI-9300's LAN port (in this case 192.168.1.10)

VOI-7100 connects to internet and register to VOI-9300



This guide will be separated into two sections. A. for On-Net calls illustration, B. for Off-Net calls illustration.

Limitation: When calling from VoIP, users will have to use access code 8 to reach one of the 4 FXO ports on VOI-9300. Access code 9 to reach one of the 8 FOX ports on VOI-8002. It will not automatically direct to different devices.

1. Configure the WAN port of VOI-9300.

We recommend using a static IP assigned by your ISP or using DDNS.

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| one VOI-9300 IP-PBX | | | |
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| WAN Link Type | s PPPOE • | | |
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| > WAN settings | Config DNS Servers | | |
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2. Configure the DHCP server of VOI-9300.

Note here we assign 192.168.1.10 for VOI-8002, therefore we start our IP pool from 192.168.1.11 for other client uses.

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| A PARTY | DHCP Setting | | | | |
| | This IP-PB) | K built-in DHCP server, v | which can config your computer's TCP/IP protocols on the LAN. | | |
| | DHUP Server Status | Chable Cooking | | | |
| > Status | Cited ID Address | Disable Enable | | | |
| > Lan settings | Start P Address | 192.108.1.11 | | | |
| > WAN settings | End IP Address | 192.168.1.254 | | | |
| > DHCP Server | Subnet Mask | 255.255.255.0 | | | |
| > DDNS(Dynamic DNS) | Gateway | 192.168.1.1 | | | |
| > VPN Settings | First DNS Server | | (Optional) | | |
| | Second DNS Server | | (Optional) | | |
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3. Configure the WAN port for VOI-8002.

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| Home Voip Setup | ^ Conn | ected Type | | | |
| Port Status Line Configure | | Dynamic IP Address | Obtain an IP address automatically from your service provider. | | |
| C Routing Setup | ۲ | Static IP Address | Uses a static IP address. Your service provider gives a static IP address to a | access Internet services. | |
| Provision | | PPP0E | PPP over Ethernet is a common connection method used for xDSL | | |
| Advance Setup | | PPTP | PPP Tunneling Protocol can support multi-protocol Virtual Private Networks | (VPN). | |
| System Setup | | L2TP | Layer 2 Tunneling Protocol can support multi-protocol Virtual Private Network | rks (VPN). | |
| System Status System Status System Status Date&Time Administrator System Log Wan Contected for Lan NAT Firewall Routing UPNP DNS Backup/Kestore Save Modification | | | | OK | Cancel |
| Done | | | | Internet Protected Mode: Off | € 100% - |

4. Enter the static IP 192.168.1.10, default gateway is VOI-9300's LAN IP, 192.168.1.1.

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| Home Voip Setup | Static IP | | | | | | |
| Port Status Line Configure | IP address assigned by your ISP | 192 | 168 | . 1 | 10 | | |
| Routing Setup Register Server | Subnet Mask | 255 | 255 | 255 | 0 | | |
| Provision Advance Setup | ISP Gateway Address | 192 | 168 | 1 | . 1 | | |
| System Setup | MTU(576-1500) | 1500 | | | | | |
| System | Does ISP provide more IP addresses? | Yes | | | | | |
| System Status | | | | | | | |
| Date&Time | | | | | | | |
| Administrator | | | | | | out | 2 |
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A. On-Net Calls (Calls from PSTN to VoIP)

On-Net calls for VOI-8002 to VOI-9300

1. Line Configuration -> Line Setting -> Hotline, please Enable all FXO ports.

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| Home | * | | | | Line Settin | g | | | |
| Voip Setup | | | | | | | | | |
| Line Configure | Port | Interface | Name | Line Number | TxGain | RxGain | InBound | OutBound | HotLine |
| Line Setting | 1 | FXO | | | 0 v db | 0 👻 db | Enable 👻 | Enable 👻 | Enable 👻 |
| Tone Setting | 2 | FXO | | | 0 - db | 0 - db | Enable - | Enable - | Enable 👻 |
| Line Polarity | 3 | FXO | | | 0 - db | 0 • db | Enable 👻 | Enable - | Enable 👻 |
| C Routing Setup | 4 | FXO | | | 0 - db | 0 - db | Enable + | Enable - | Enable - |
| C Register Server | 5 | FXO | | | 0 v db | 0 v db | Enable - | Enable - | Enable - |
| Advance Setup | 6 | EXO | | | 0 v db | | Enable - | Enable - | Enable - |
| Application | 7 | EXO | | | 0 | 0 = | Enable - | Enable - | Enable - |
| System Setup | | EVO | | | | | Enable - | Enable - | Enable - |
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 Please configure the setting as below. Note: "hl1" to "hl8" (as Hotline mode), Min. Max. Strip digits as 3 (remove "hlx"). Prefix 112 (the default auto attendant number of VOI-9300). The destination is VOI-9300 using SIP protocol (sip:192.168.1.1).

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| Home | * | | | | | VoIP Call Out | | | | |
| Voip Setup | | | | | | | | | | |
| Line Configure | | | MaxDigits: 20 | FirstDigitTir | me(Sec): 30 | OtherDigitTime(Sec): 5 | Timeout for Re | -entry route: Disabl | e 🔻 second. | |
| VoIP Call Out | Index | Remark | Area Code | Min Digits | Max Digits | Destination | Strip | Prefix | Profile | Delete |
| VoIP Call In | 1 | | hl1 | 3 | 3 | sip:192.168.1.1 | 3 | 112 | | Delete |
| VoIP Call In IVR | 2 | | hl2 | 3 | 3 | sip:192.168.1.1 | 3 | 112 | | Delete |
| Forwarding | 3 | | hI3 | 3 | 3 | sip:192.168.1.1 | 3 | 112 | | Delete |
| Authorization | 4 | | hl4 | 3 | 3 | sip:192.168.1.1 | 3 | 112 | | Delete |
| C Register Server | 5 | | h15 | 3 | 3 | sip:192.168.1.1 | 3 | 112 | | Delete |
| Provision | 6 | | hl6 | 3 | 3 | sip:192.168.1.1 | 3 | 112 | | Delete |
| Advance Setup | 7 | | hl7 | 3 | 3 | sip:192.168.1.1 | 3 | 112 | | Delete |
| System Setup | 8 | | hl8 | 3 | 3 | sip:192.168.1.1 | 3 | 112 | 2 | Delete |
| System | 9 | 1 | 0 | 2 | 2 | 127.0.0.1 | | | | Delete |
| Lan Lan Lan Lan Lan Lan Lon Firewall Routing UPnP DDNS Backup/Restore Reboot Save Modification | | | | Insert to: 10 | Area Code: | Modify Reset IPAddr Add Reset | ess: | | | |
| Done | | | | | | | | Internet Protect | ed Mode: Off | € 100% - |

3. Do not forget to save the modification.



4. Return to VOI-9300 -> System -> Trust Host, enter the IP address of VOI-8002 and the SIP port 5060.

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| and Processing | | | Address | 192. 168. 1. 10 | | | |
| | | | Port | 5060 | | | |
| > Server Ports Setting | | | Memo | V0I-8002 | | | |
| > Rate Setting | | | | Submit | | | |
| > DMZ | - | | | | | | |
| > TrustHost | Trusing | ist List | | | | | |
| > Music on Hold | NO. | Address 192 168 1 10 | Port 5060 | VOL8002 | Operation | | |
| > HotLines | | | | | | | |
| > Admin Account | | | | | | | |
| > USB-Disk Setting | | | | | | | |
| > Voicemail Setting | | | | | | | |
| > Time Zone | | | | | | | |
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B. Off-Net Calls (Calls from VoIP to PSTN)

Off net calls from VOI-9300

- Outgoing calls -> Outgoing calls via FXO, please configure as below. VOI-9300 will automatically select the FXO port that is not busy.
- 2. Click on the yellow icon to Modify Outgoing Rules via FXO.

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| | | FX01 | | | | | | | | | | | | |
| > Outgoing calls Via FXO | | FX02 | | | | | | | | | | | | |
| > Outgoing calls Via VolP | | FX03 | | | | | | | | | | | | |
| | | FXO4 | | | | 7 | | | | | | | | |
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| | Cur | rrent Outgoing Rule: | s List Via FXO 🛛 | Add Outgoing R | ules via FXO] | | | | | | | | | |
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- 3. Modify Outgoing Rules via FXO. Please configure as below. The dial prefix 8 is the access number to connect to one of the 4 FXO port on VOI-9300.
- Outgoing call -> Outgoing calls via VoIP. Please configure as below. Note the IP address of VOI-8002 is 192.168.1.10:5060 using SIP port 5060. The dial prefix is 9 means when you dial 9, it will be directed to VOI-8002 FXO port.

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| Modiny Outgoing rules via VOIP | | | | |
| Description | out-> VOI-8003 | le | | |
| Authority | >= 0 ▼ | N | | |
| P/Domain Address | 192.168.1.10:5060 | | | |
| UserName | | | | |
| Password | | | | |
| Dial Prefix | 9 work normally. | TIPS:Dial Prefix can not be in FXO,or system will not | | |
| Dial Strip Bit | 1 | | | |
| Append Prefix | | | | |
| User Prefix | VOI-9300 | | | |
| User Strip Bit | 0 | | | |
| Feature | Standard 👻 | | | |
| Outside User Limit | 🔘 Enable 💿 Disable | | | |
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 Return to VOI-8002 -> Routing Setup -> VoIP Call In, please configure as below. VOI-8002 will automatically assign VoIP to a non busy FXO port.

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| Voip Setup | | | | | | | | | | | | | | | |
| Port Status | | | | | | | _ | _ | | | | | - | | |
| Line Configure | Inde | x Area Code | Auth. Strip | Prefix | Maximum | Minimum | From | То | LineNo | RS Verify | CallWaiting | Alert | Profile | Forward | Delete |
| Routing Setup | 1 | | | | | | 1 | 8 | | | Disable 🔻 | 2 - | | | Delete |
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| Routing Profile | | | | | | | | | | | | | | | |
| Forwarding | | | | | Incart Oto | 2 | Area Car | da: | | A | d Reset | | | | |
| Authorization | | | | | insertatio | . 2 | Area Coo | de: | | | | | | | |
| Register Server | | | | | | | | | | | | | | | |
| Provision | | | | | | | | | | | | | | | |
| Advance Setup | | | | | | | | | | | | | | | |
| Application | | | | | | | | | | | | | | | |
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Testing:

You will need a SIP device register to VOI-9300 over the internet or in LAN. Here we use VOI-7100 for example.

If you need to configure VOI-7100 with VOI-9300, please refer to our quick guide on FAQ web site.

http://www.level1.tw/level1/faq/How%20to%20make%20calls%20from% 20VOI-7000%20to%20VOI-7000%20via%20VOI-9200%20SIP%20server.pdf

- 1. Off Hook the hand set of VOI-7100.
- Press Access Code 8 + PSTN number to use one of the 4 FXO port on VOI-9300 For example, 826272288 to call 2627-2288 by VOI-9300 FXO port.
- 3. Dial Access Code 9 + PSTN number to use one of the 8 FXO port on VOI-8002 For example, 926272288 to call 2627-2288 by VOI-8002 FXO port.

P.S. For on Net call testing, simply dial the trunk line PSTN number. You should be able to hear the VOI-9300 greeting.