

# Optimum Business SIP Trunk Set-up Guide

For use with IP PBX only.

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## FOR USE WITH IP PBX ONLY

Important: If your PBX is configured to use a PRI connection, do not use this guide. If you need assistance with the PRI parameter settings, please call 1-866-575-8000.

### Step 1:

#### Log on to the Optimum Business SIP Trunk Adaptor

1. Connect a PC to port 4 of the Optimum Business SIP Trunk Adaptor, the silver device labeled Edgewater Networks, 4550 series.



2. Open a Web browser and go to IP Address <http://10.10.200.1>. A login box will appear.
3. Enter login and password and click 'OK':  
Login: pbxinstall  
Password: s1ptrunk



### Step 2:

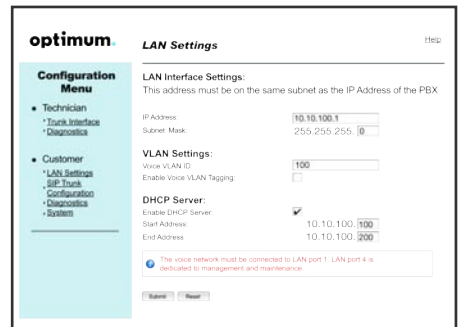
#### Click on the LAN Settings Link

1. Assign an IP Address to the LAN interface of the SIP Trunk Adaptor. The IP address must be on the same subnet as the IP PBX. This changes the address on port 1 of the Optimum Business SIP Trunk Adaptor.

Note: This will become your local SIP proxy IP address. No other IP addresses will be provided by Cablevision.

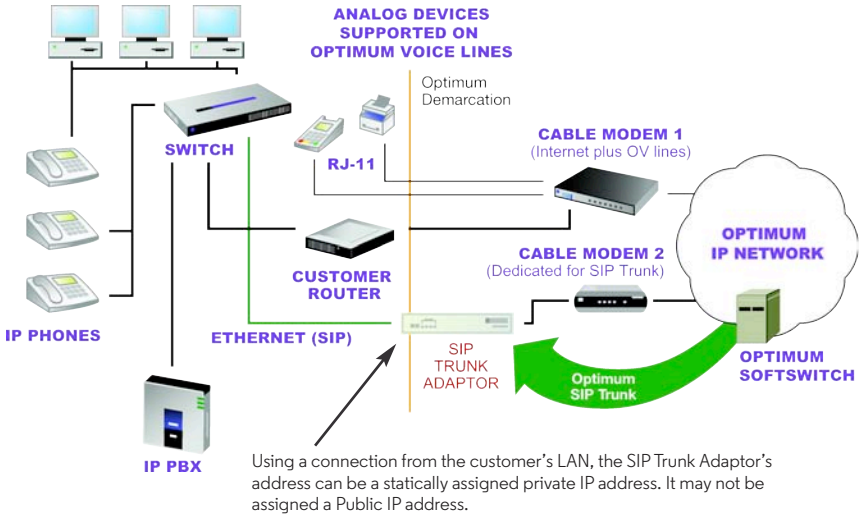
2. Optional: Specify a VLAN for your voice traffic. Click the 'Enable Voice VLAN Tagging' check box. The default VLAN ID is 100.

Note: VLAN 200 should not be used. It is dedicated to port 4 for management.

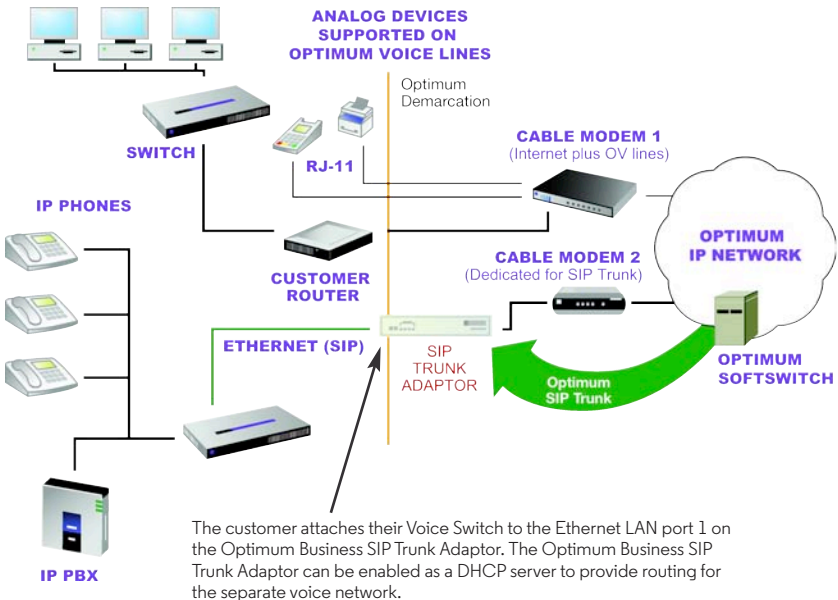


3. Optional: Enable the DHCP server. This will allow the SIP Trunk Adaptor to act as a DHCP server, which will provide IP addresses to the voice network, and create a dedicated voice LAN, as per diagram 2.
4. Click 'Submit'.

### Diagram 1 SIP Trunk Adaptor for IP-PBXs Example: Single LAN Configuration



### Diagram 2 SIP Trunk Adaptor for IP-PBXs Example: Separate Voice and Data Networks Configuration



## Step 2 continued

Field	Description
IP Address	Specifies the IP address needed to establish the connection to the LAN. The Adaptor's LAN IP address must be on the same subnet as the PBX. Important: The voice network must be connected to LAN port 1. LAN port 4 is dedicated to management and maintenance.
Subnet Mask	Specifies the subnet mask for the LAN IP address in the field above.
Voice VLAN ID	This is the Voice VLAN ID. Note: VLAN ID 200 is reserved for management on port 4 and must not be used.
Enable Voice VLAN Tagging	Enables VLAN tagging on port 1. The default is untagged.
Enable DHCP Server	Optional – This enables and disables the DHCP server on the voice VLAN (port 1).
Start Address	Specifies the starting IP address for the DHCP pool.
End Address	Specifies the ending IP address for the DHCP pool.
Submit	Applies the settings configured on this page.
Reset	Clears all fields and selections and allows you to enter new information.

## Step 3:

### Click on the SIP Trunk Configuration Link

1. Select your IP PBX make and model from the drop-down menu.
2. Specify how the IP PBX will register to the Optimum Business SIP Trunk Adaptor.

The screenshot shows the Optimum Business SIP Trunk Configuration web interface. On the left is a 'Configuration Menu' with options: Technician (Trunk Interface, Diagnostics), Customer (LAN Settings, SIP Trunk Configuration, Diagnostics, System), and System. The main content area is titled 'SIP Trunk Configuration' and includes a 'Help' link. It features a 'Select your PBX:' dropdown menu currently set to 'Avaya IP Office v7.0 (18)'. Below this are two radio button options: 'Passive connection using the local, private IP address of the PBX' (selected) and 'Active connection using registration'. The 'Active connection using registration' option includes fields for 'User ID' (6316769594), 'Password', and 'Registered:' (10.10.100.11:5060). There is also a 'Convert Inband DTMF:' checkbox which is unchecked. At the bottom are 'Submit' and 'Reset' buttons.

Step 3 continued

3. The Cablevision network only supports Inband DTMF. Click on the check box next to “Convert Inband DTMF” if you cannot configure your IP PBX to send out Inband DTMF.

The DTMF tone duration generated by the phones and/or PBX may need to be increased from their default setting. Some phones and/or PBX have a default setting between 180ms to 200ms. This setting is too low. The recommended setting is 600ms.

4. Click ‘Submit’.

Field	Description
Select your PBX Make and Model (drop-down menu)	Select the make and model of your IP PBX.
Passive connection using the local, private IP address of the PBX	Indicates that the connection to the PBX will be passive.
PBX Address	The IP address currently assigned to the PBX.
Active connection using registration	Indicates that the connection to the PBX will be active.
User ID	Specifies the user name required to register an active connection with the PBX.
Password	Specifies the password required to register an active connection with the PBX.
Submit	Applies the settings configured on this page.
Reset	Clears all fields and selections and allows you to enter new information.
Trunk Status	Displays the registration status of the trunk. The status may be Not configured, Registered, or Not registered: <ul style="list-style-type: none"><li>• Not configured means that registration has not yet occurred.</li><li>• Registered means that registration was successful.</li><li>• Not registered means that registration was not successful.</li></ul>
DID's	Displays provisioned DID numbers. The first number is always the pilot number.

## Step 4:

1. Download the IP PBX configuration guide for your IP PBX located at [www.optimumbusiness.com/SIP](http://www.optimumbusiness.com/SIP).
2. Follow the suggested IP PBX configuration once you have downloaded the configuration guide.

## Step 5:

The screenshot shows the Optimum Network Test Tools web interface. On the left is a blue 'Configuration Menu' with links for Customer, LAN Settings, SIP Trunk Configuration, Diagnostics, and System. The main content area is titled 'Network Test Tools' and includes a 'Help' link. It contains four test tool sections: 'Outbound Call Test' with fields for Pilot Number (2408881028) and Telephone Number, and 'Call'/'Reset' buttons; 'Inbound Call Test' with a description, radio buttons for 'Enable' and 'Disable', and a 'Submit' button; 'Ping Test' with an 'IP Address to Ping' field and 'Ping'/'Reset' buttons; and 'Traceroute Test' with an 'IP Address to Trace' field, an 'Interface' dropdown (LAN/WAN), and 'Traceroute'/'Reset' buttons.


## Diagnostics Link

Note: You can make a test call directly from your phone system or use the test call applications on page 7.

Step 5 continued

Field	Description
Outbound Call Test Telephone Number	Specifies an outside phone number to which an outbound call will be initiated. The pilot telephone number of the SIP Trunk will be prepopulated.
Pilot Number	Displays the provisioned pilot number, which is used for outbound and inbound call tests.
Call	Initiates a call outbound to a telephone number entered or inbound to the pilot number displayed.
Inbound Call Test (radio button)	Indicates whether inbound test call will be enabled or disabled. If inbound test calls are enabled, calls made to the pilot number will be redirected to the test UA for fifteen minutes. When the pilot number is dialed, you will hear a test message play.
Submit	Enables or disables the inbound call test.
IP Address to Ping	Verifies basic connectivity to a networking device. Successful ping test results indicate that both physical and virtual path connections exist between the system and the test IP address.
Ping Button	Sends a ping to the IP address specified in the field "IP Address to Ping".
IP Address to Trace	Tracks the progress of a packet through the network. The packet can be tracked through the WAN or LAN interfaces of the adaptor.
Interface (radio button)	Indicates whether a packet will be tracked through the LAN or the WAN.
Traceroute Button	Initiates a traceroute to the specified IP address on either the LAN or the WAN.
Reset	Clears all fields and selections and allows you to enter new information. Reset applies to outbound call test, ping and traceroute.

# System



**Configuration Menu**

- Customer
  - LAN Settings
  - SIP Trunk Configuration
  - Diagnostics
  - System

**System** [Help](#)

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**Software Version:**  
Version 10.2.0.1Rc4 -- Fri Jun 4 12:23:13 PDT 2010

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**Hostname:**  
4552

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**Model:**  
EdgeMarc 4552

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**Vendor:**  
Cablevision

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**LAN Interface MAC Address:**  
A8:70:A5:00:05:2A

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**Registration Status:**  
The ALG feature is registered. View [license key](#).

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**System Date:**  
06/09/2010 22:29:10 UTC

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**Change Password:**

- pbxinstall

Field	Description
Pbxinstall Link	Select to change the default password for the pbxinstall login ID. Only the password can be changed. The login ID cannot be changed.



# Password

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**Configuration Menu**

- Customer
  - ▶ LAN Settings
  - ▶ SIP Trunk Configuration
  - ▶ Diagnostics
  - ▶ System

**Set Password** [Help](#)

Change the GUI password by filling in the fields below. The password must be between 6 and 8 characters in length.

Username:

Current Password:

New Password:

Confirm Password:

Field	Description
Username	Specifies the username for which the password can be changed.
Current Password	Specifies the current password.
New Password	Specifies the new password.
Confirm Password	Confirms the new password.
Submit	Applies the settings configured on this page.
Reset	Clears all fields and selections and allows you to enter new information.

For technical assistance, please contact Optimum Business Technical Support at 1-866-575-8000.