



Optimum Business[®] SIP TRUNK Set-up Guide



For use with IP PBX only.

FOR USE WITH IP PBX ONLY

Important: If your PBX is configured to use a PRI connection, no further SIP Trunk configuration is required.

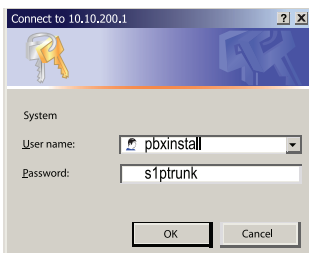
Step 1:

Log on to the Optimum Business SIP Trunk Adaptor

1. Connect a PC to port 4 of the Optimum Business SIP Trunk Adaptor (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 - 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).*
3. Click 'Submit'.

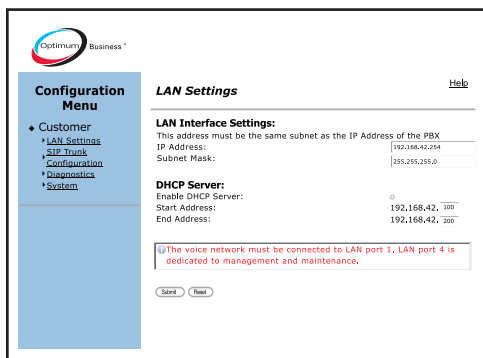
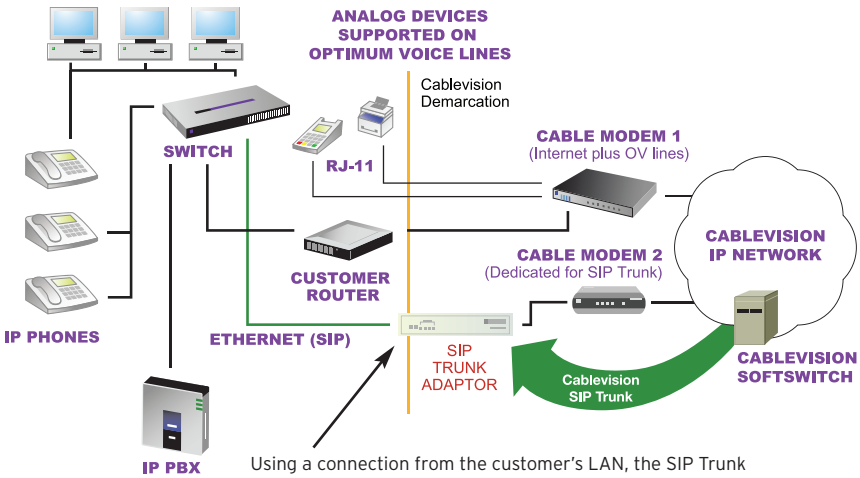


Diagram 1

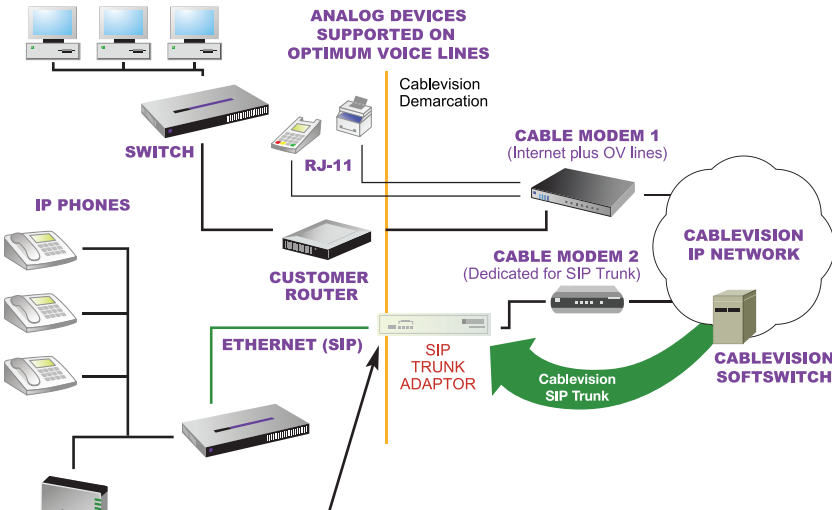
**SIP Trunk Adaptor for IP-PBXs
Example: Single LAN Configuration**



Using a connection from the customer's LAN, the SIP Trunk Adaptor's address can be a statically assigned private IP address. It may not be assigned a Public IP address.

Diagram 2

**SIP Trunk Adaptor for IP-PBXs
Example: Separate Voice and Data Networks Configuration**



The customer attaches their Voice Switch to the Ethernet LAN port 1 on the Optimum Business SIP Trunk Adaptor. The Optimum Business SIP Trunk Adaptor can be enabled as a DHCP server to provide routing for the separate voice network.

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.
Enable DHCP Server	<i>Optional</i> - 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

Configuration Menu

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

SIP Trunk Configuration [Help](#)

Select your PBX:

Passive connection using the local, private IP address of the PBX
This address must be on the same subnet as the IP Address that is specified for the LAN interface
PBX Address

Active connection using registration
User ID:
Password:
Registered:

Convert Inband DTMF:

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.
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.
4. Click "Submit".

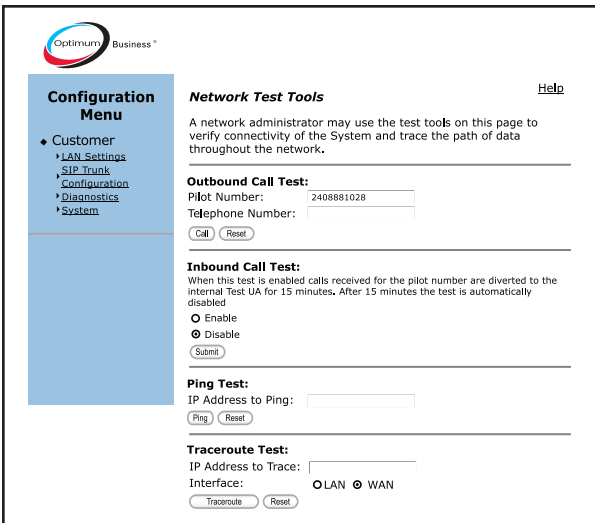
Step 3 continued

Field	Description
Select your PBX Make and Model (<i>drop-down menu</i>)	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">• Not configured means that registration has not yet occurred.• Registered means that registration was successful.• Not registered means that registration was not successful.
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
2. Follow the suggested IP PBX configuration once you have downloaded the configuration guide.

Step 5:



The screenshot shows the Optimum Business web interface. On the left is a '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 three test sections: 'Outbound Call Test' with fields for Pilot Number (2408881028) and Telephone Number, and 'Call'/'Reset' buttons; 'Inbound Call Test' with 'Enable'/'Disable' radio buttons and a 'Submit' button; and 'Ping Test' with an 'IP Address to Ping' field and 'Ping'/'Reset' buttons. At the bottom is the 'Traceroute Test' with an 'IP Address to Trace' field, an 'Interface' dropdown (LAN selected), and 'Traceroute'/'Reset' buttons.

Diagnostics Link

NOTE: You can make a test call directly from your phone system or use the test call applications below.

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

Optimum Business

Configuration Menu

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

System [Help](#)

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

Hostname:
4552

Model:
EdgeMarc 4552

Vendor:
Cablevision

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

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

System Date:
06/04/2010 22:29:10 UTC

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

Optimum Business

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.