



X-Lite Beta 4.0 for Windows


User Guide

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The content of this publication is intended to demonstrate typical uses and capabilities of the CounterPath X-Lite Beta 4.0 softphone application from CounterPath Corporation. Users of this material must determine for themselves whether the information contained herein applies to a particular IP-based networking system.

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This manual corresponds to X-Lite Beta version 4.0.

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1 Introduction

Standard Telephone Features

The CounterPath X-Lite Beta softphone has all standard telephone features, including:

- Call display and Message Waiting Indicator (MWI).
- Speakerphone and Mute.
- Redial, Hold.
- Call history – list of received, missed, and dialed calls.

Enhanced Features and Functions

X-Lite Beta also supports the following features and functions:

- IM and presence using the SIMPLE protocol.
- Managed contact list.
- Automatic detection and configuration of audio devices.
- Acoustic echo cancellation, automatic gain control, voice activity detection.
- Support for the following audio codecs:
Broadvoice-32, Broadvoice-32 FEC, DVI4, DVI4 Wideband, G.711aLaw, G.711uLaw, GSM, iLBC, L16 PCM Wideband, Speex, Speex FEC, Speex Wideband, Speex Wideband FEC.
- Automatic selection of the best codec based on the other party's capability, the available bandwidth, and network conditions. X-Lite Beta switches the codec within a call in response to changing network conditions.
- Compliance to 3261 SIP standard.
- STUN and ICE NAT traversal.
- Support for DTMF (RFC 2833, inband DTMF or SIP INFO messages).

2 Installation and Setup

2.1 Getting Ready

Account Information

After choosing a VoIP service provider, you will need the following information:

- User name and password
- Authorization Name (if applicable)
- Domain
- Firewall traversal and other network information; see “Configuring X-Lite Beta” on page 31.

System Requirements

Processor	Minimum: Pentium 4® 2.4 GHz or equivalent Optimal: Intel Core 2 Duo or equivalent, .
Memory	Minimum: 1 GB RAM Optimal: 2 GB RAM
Hard Disk Space	50 MB
Operating System	Windows XP Service Pack 2 Windows® Vista®
Additional	Microsoft Windows Installer 3.1 Microsoft .NET 3.5 SP1 Microsoft VC 9.0 Runtime Service Pack 1 (Note that the installer will take care of installing those if you don't have them)
Connection	IP network connection (broadband, LAN, wireless)
Sound Card	Full-duplex, 16-bit or use USB headset

Microsoft Internet Explorer® 6.0 or later.

Multimedia Device Requirements

X-Lite Beta requires both speakers and a microphone to make calls. Any of the following configurations are acceptable:

- External speakers and microphone
- Built-in speakers and microphone
- Dual-jack multimedia headset
- USB multimedia headset
- USB phone.

2.2 Installing X-Lite Beta

Run the X-Lite Beta installer and follow the prompts in the install wizard.

If you want to configure X-Lite Beta immediately, then at the final step of the wizard, select **Launch X-Lite Beta**.

2.3 Configuring X-Lite Beta

If X-Lite Beta is not already running, start it as you would any other program: Use the **Windows Start** menu or double-click the desktop icon. X-Lite Beta appears.



Setting up Accounts

After obtaining SIP account information from your VoIP service provider, you can set up X-Lite Beta accounts.

1. From the X-Lite Beta menu, choose X-Lite > Accounts. The Account Settings window appears.

The screenshot shows the 'Account Settings' dialog box with the following fields and options:

- Account name:** Account 1
- Protocol:** SIP
- User Details:**
 - * User ID:** jsantos
 - * Domain:** domainA.com
 - Password:** (empty)
 - Display name:** Joseph Santos
 - Authorization name:** (empty)
- Domain Proxy:**
 - Register with domain and receive calls
 - Send outbound via:**
 - Domain
 - Proxy **Address:** (empty)
- Dial plan:** (empty)

Buttons: OK, Cancel

2. In the Account tab, complete the User Details area with the information obtained from your VoIP service provider.
3. Complete the remaining tabs as specified by your service provider or to suit your setup. Settings that you may need to change immediately include:
 - Account tab, Domain Proxy area.
 - Topology tab, if your computer is on a network and/or behind a firewall.For more information, see “Configuring X-Lite Beta” on page 31.

Setting up for Voicemail

Your VoIP service provider may offer voicemail. If it does, then you can set up some voicemail features in X-Lite Beta. See page 34.

Setting up a Contact List

Typically, you will want to create contacts in order to easily make calls and send IMs. See page 22.

2.4 Testing your Installation

Choose Help > Troubleshooting to display the Troubleshooting window.

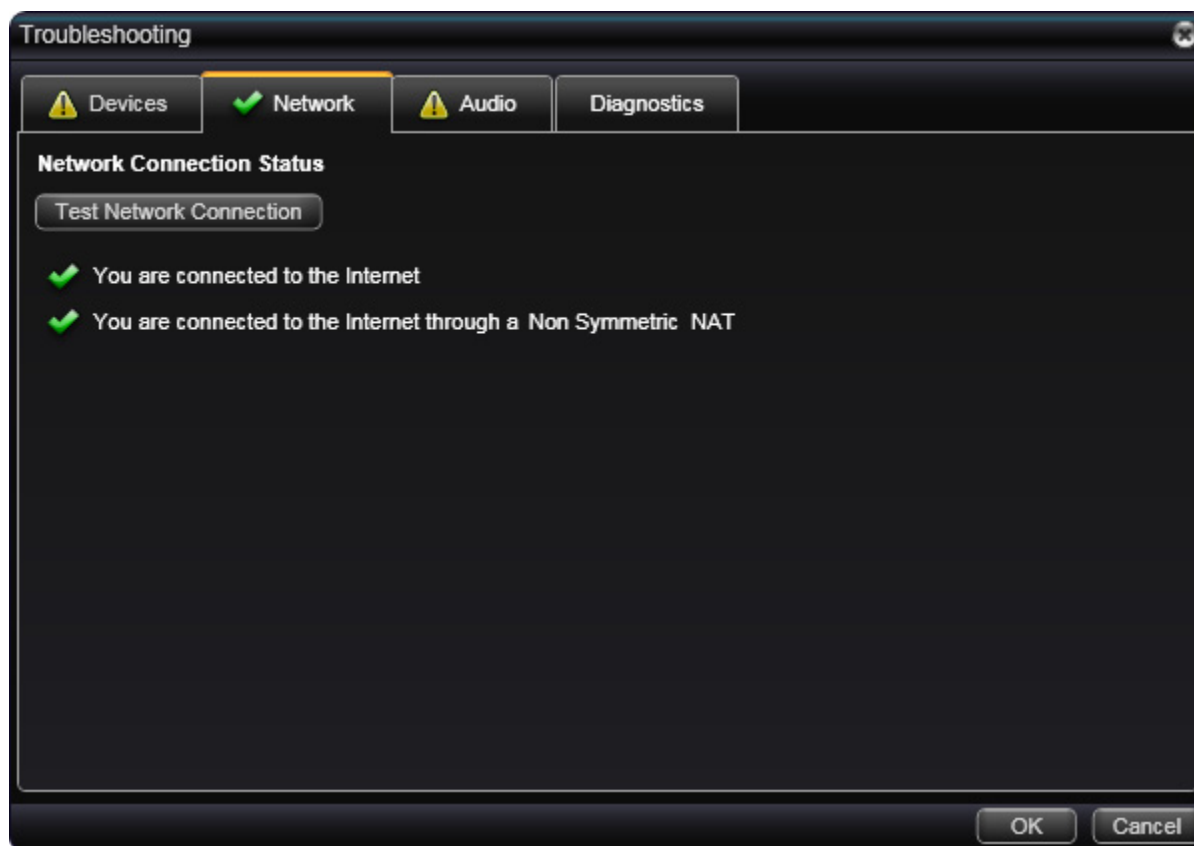
Testing Audio Devices

You can verify that your microphone and speakers are working and can set the volume to a comfortable level without having to actually place a phone call.



Testing the Network Connection

You can verify that you are successfully connected to the network.



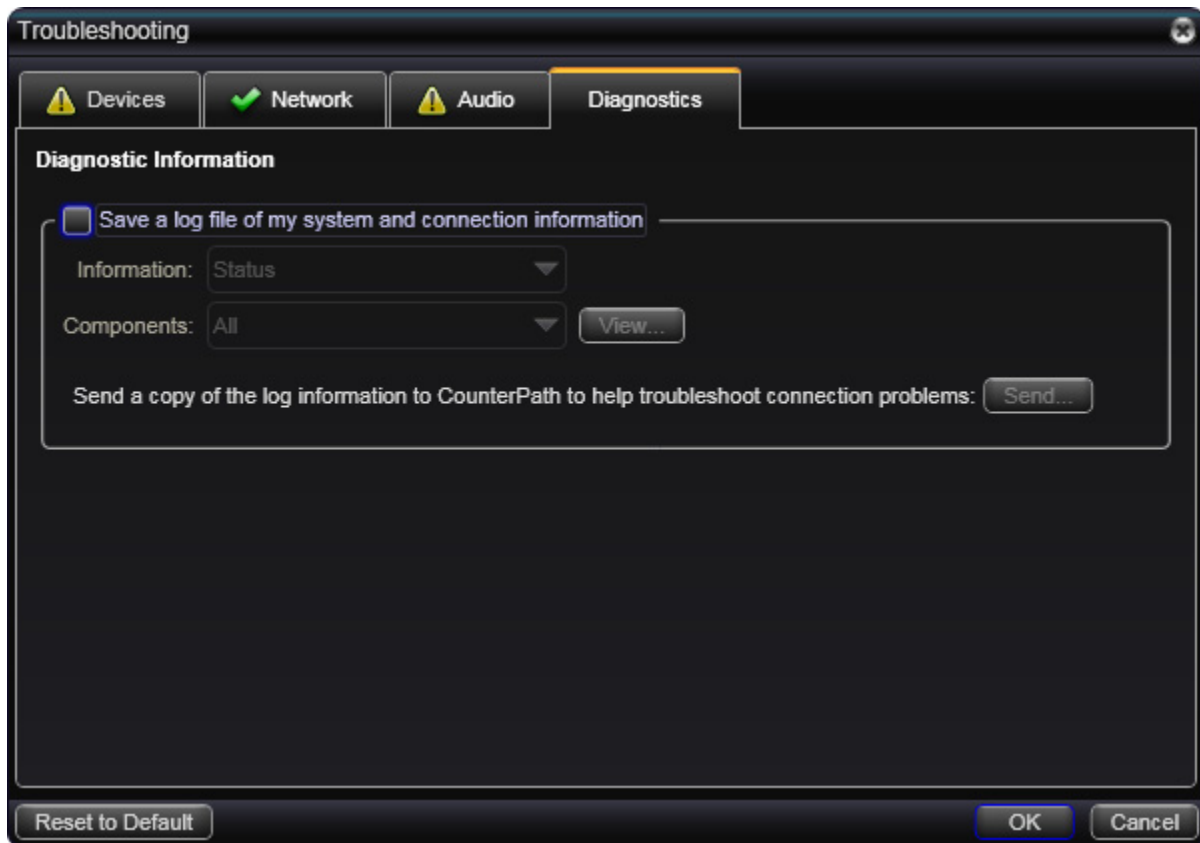
Testing Audio Quality

While you are on a phone call, you can test the quality of the audio. Note that to perform a valid test, you should be on an established call (not a call attempt).



Diagnostics

Only use this panel if instructed to do so by your support representative at your VoIP service provider.



3 Using X-Lite Beta

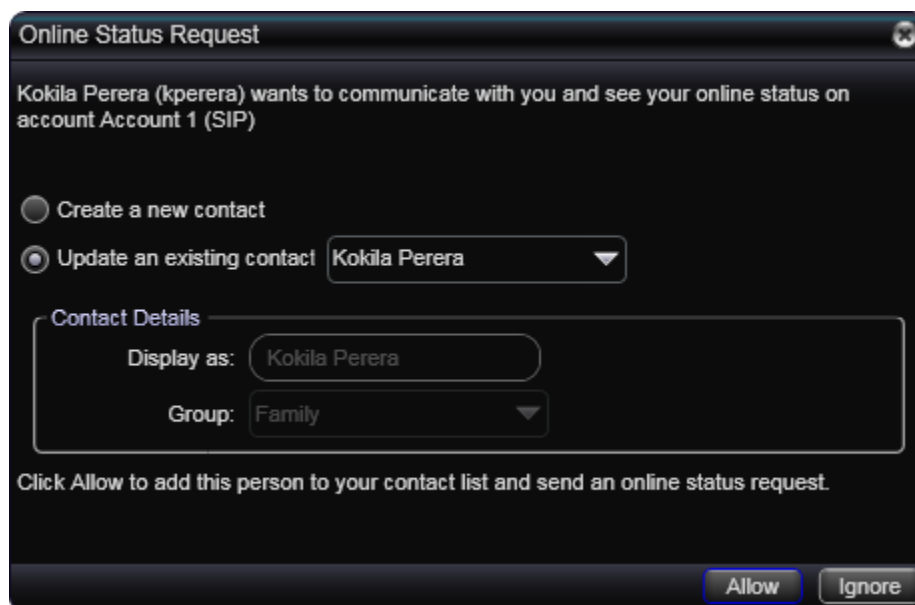
3.1 Starting X-Lite Beta

If X-Lite Beta is not already running, start it as you would any other program: Use the **Windows Start** menu or double-click the desktop icon. X-Lite Beta appears.



Receiving an Online Status Request

If availability is enabled, then at any time you may get an Online Status Request dialog. For information on this request, see “Availability” on page 26.

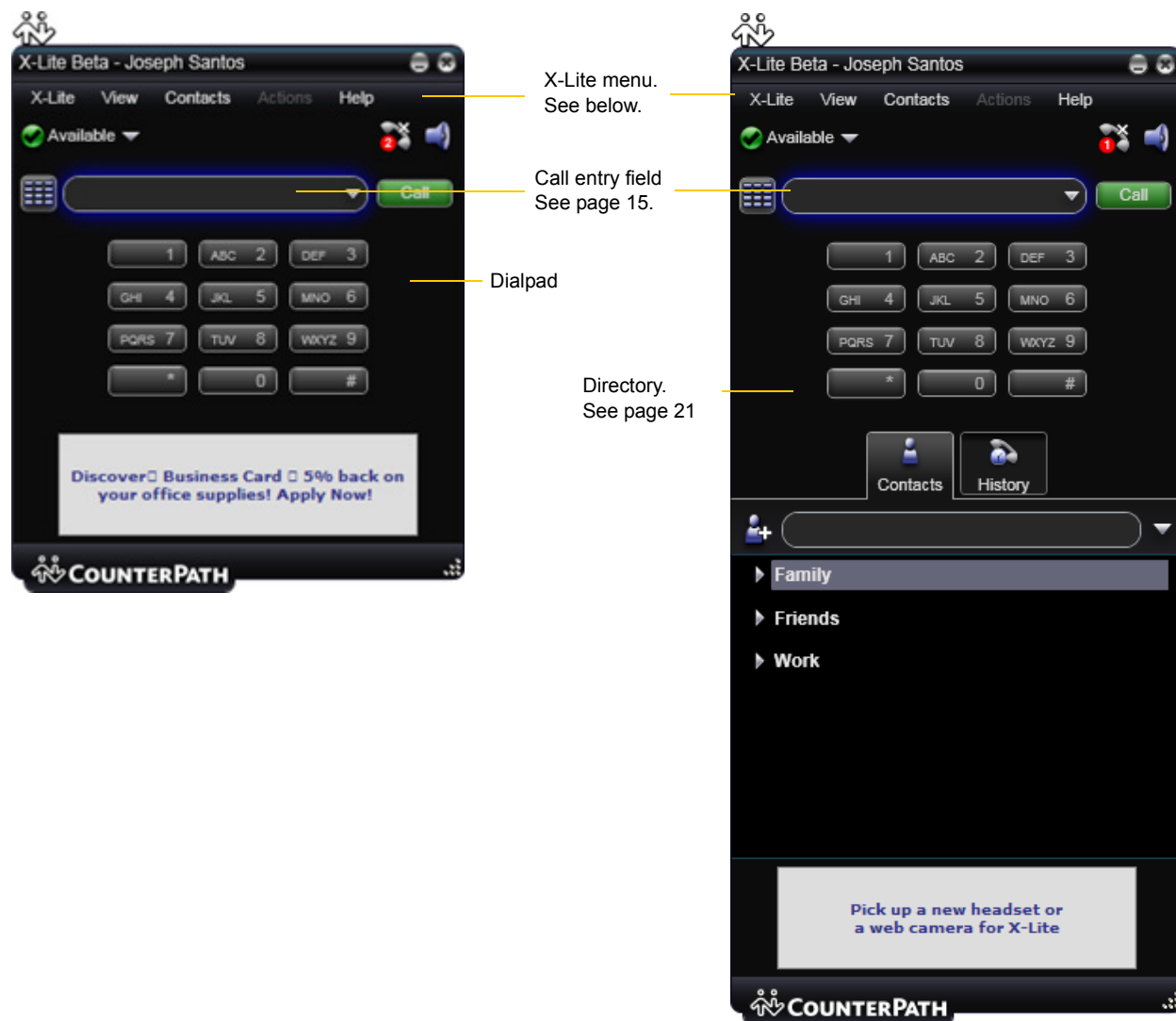


3.2 Shutting Down

To shut down X-Lite Beta, click X-Lite > Exit. Note that clicking the Close button (X) on the softphone minimizes X-Lite Beta to the system tray; it does not exit.

3.3 The Onscreen Softphone

When you first start X-Lite Beta, it will appear in one of the two views shown below — the dialpad-centric view (left) or the contact-list-centric view (right). After that, X-Lite Beta will remember the view that is current when you shut down and restart with that same view.



The X-Lite Beta Menu

X-Lite Beta

- Accounts. These settings control how X-Lite Beta interacts with your VoIP service provider. See “Configuring Accounts” on page 32.
- Preferences. These settings control the way that you work with X-Lite Beta and apply to all accounts. See “Configuring Preferences” on page 42.
- Exit. To shut down X-Lite Beta. You can also exit by pressing Ctrl+Q.

View

- Change how X-Lite Beta looks.

Contacts

Lets you work with contacts. Everything in this menu can also be performed directly in the Directory.

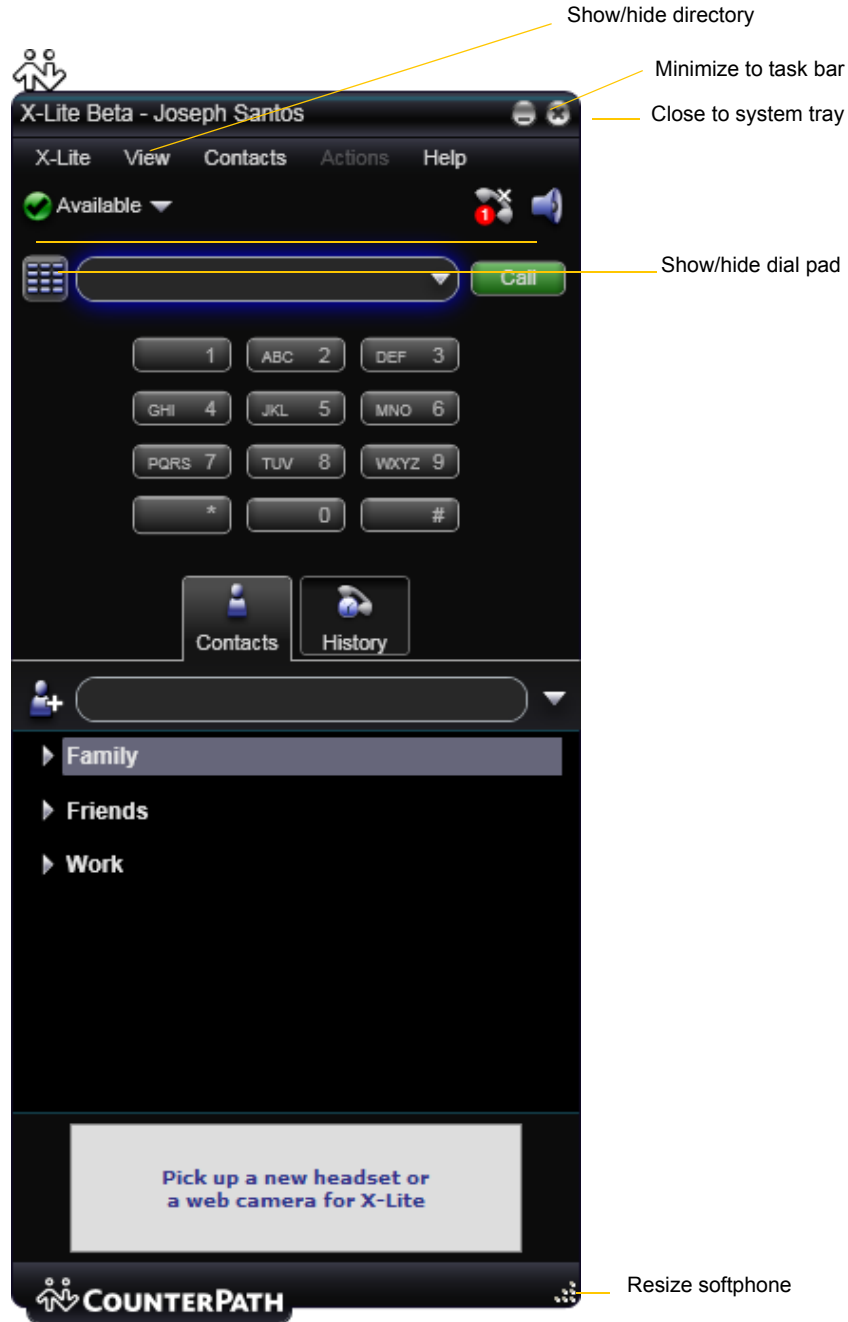
Actions

Lists the actions that you can perform, depending on the current “state” of X-Lite Beta. For example, if a contact is selected, it lists all the actions that can be performed on that contact.

Help

Provides access to various service-related features.

Showing and Hiding Parts of the Softphone



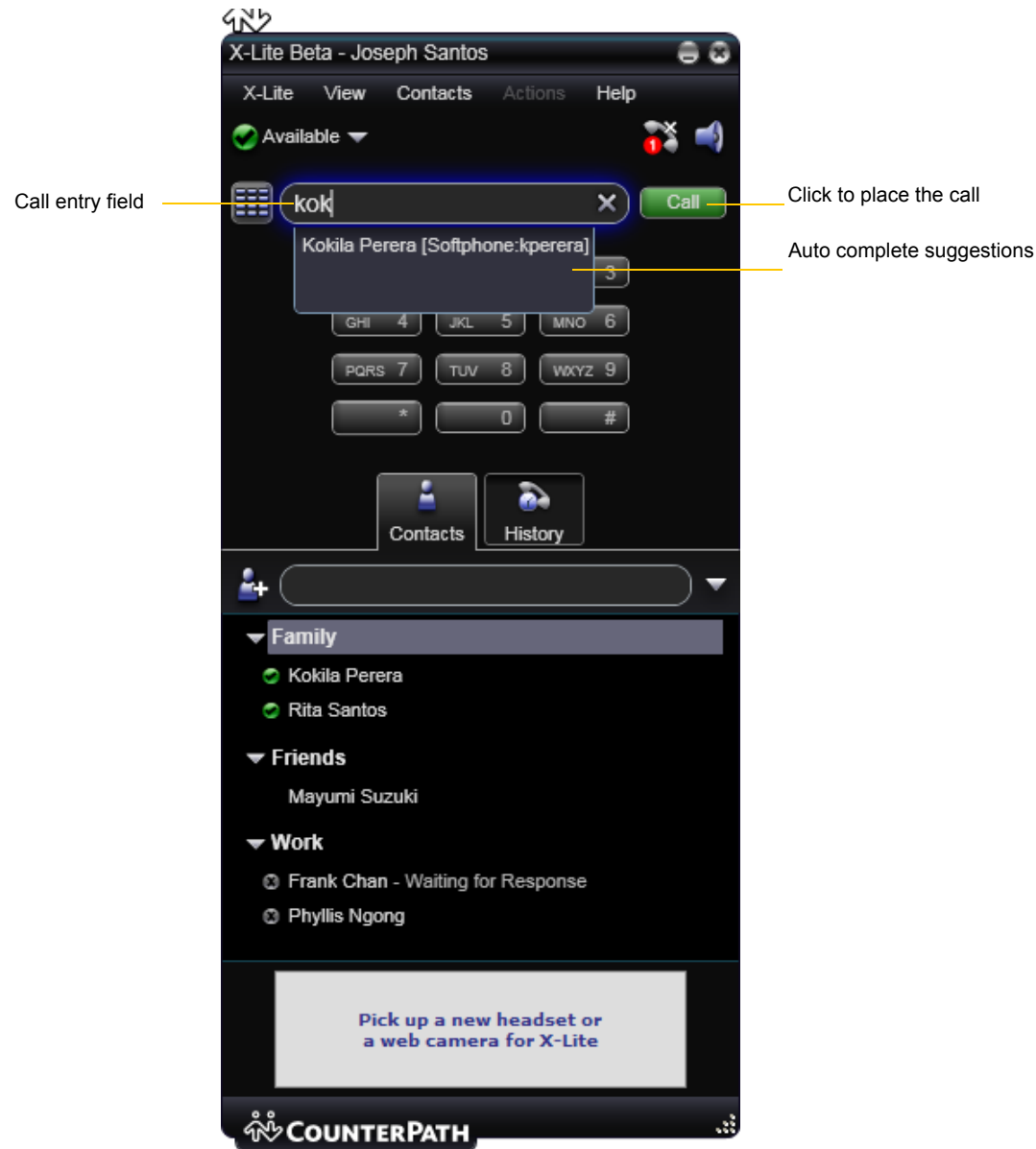
You can still receive calls when X-Lite Beta is hidden or minimized.

3.4 Placing a Call

You can contact someone using:

- A softphone address (for example, kperera@domainA.com)
- A traditional phone number, if supported by your VoIP service provider.

You can place one more call when another call is already in progress.



1. Place the call. See the table on the next page.

The outgoing call opens in its own call panel, below any other existing call panels. You will hear a ringing tone while X-Lite Beta attempts to make a connection.

2. Once the new call is established, switch between different calls by clicking Resume on the desired call panel. That call becomes the active call and if there is another established call, it is put on hold.

How	From the...	Description
Keying	Dialpad or computer keyboard	<ol style="list-style-type: none"> 1. Enter the number or address in the call entry field using the dialpad or the computer keyboard. If entering a softphone address, you can enter the entire address (kperera@domainA.com) or just the name (kperera). As you type, a suggestion for completing the entry may appear. Choose the suggestion or keep typing. 2. Click the Call button or press Enter.
Drag-and-drop contact or previous call	Contacts or History tab	Drag an entry from the Contacts or History tab. (If the tab contains lots of contacts, first search or filter the list.)
Right-click a contact or previous call	Contacts or History tab	Right-click an entry from the Contacts or History tab and choose Call. (If the tab contains lots of entries, first search or filter the list.)
Double-click a contact	Contacts tab	Contacts have a “double-click” action that either makes a phone call or starts an IM. Each contact can be configured separately for this action. See the table on page 22.
Double-click a previous call	History tab	Double-click an entry. The call is placed.
Redial	Redial button	<ul style="list-style-type: none"> • When the call entry field is empty, click the Call button. • Or click the arrow in the call entry field and select a recent call.
Dialing	Dialpad	<ol style="list-style-type: none"> 1. If the dialpad is not visible, click the Show/Hide dialpad button. 2. Click the numbers on the dialpad to enter the phone number. 3. Click the Call button or press Enter.

Placing another Call

To place a new call (without hanging up on the current call), simply place the call in the normal way. A second call panel opens below the current call. The first call is automatically put on hold.

Switch between the different calls by clicking Resume on the desired call panel. That call becomes the active call and all other calls are on hold.



Ending a Call

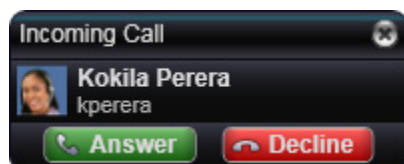
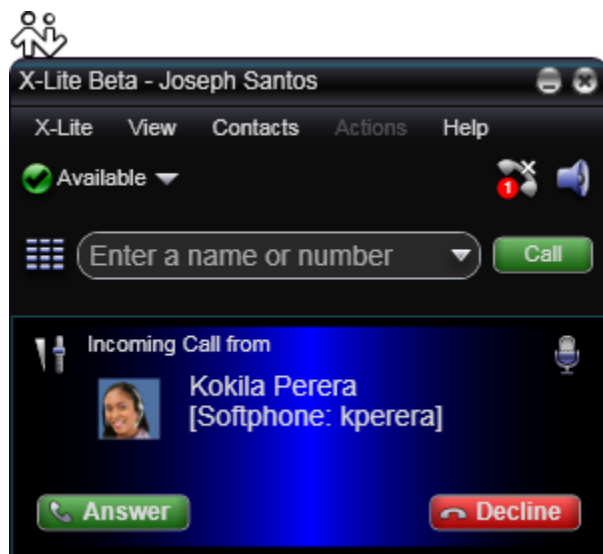
Click the red End call button on the Call panel (the call can be active or on hold). The call panel closes after a few seconds.

3.5 Handling an Incoming Call

X-Lite Beta must be running to answer incoming calls. (If X-Lite Beta is not running, incoming calls may be directed to voicemail; check with your VoIP service provider.)

As soon as an incoming call is received, a call panel appears, showing information about the call. The name and phone number of the person calling you is displayed.

In addition, the Call Alert box appears, even if X-Lite Beta is minimized.

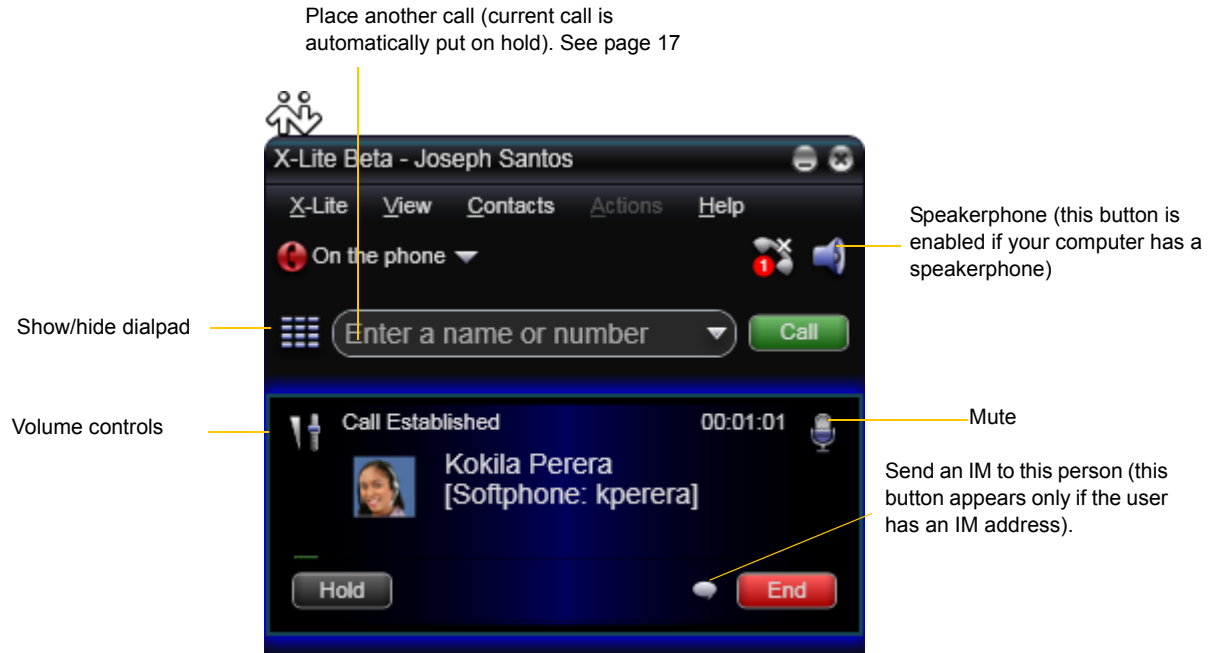


Action	From the...	Description
Answer	Call panel or Call Alert box	Click Answer. If you are on another call, that first call is automatically put on hold. You are now talking to the new caller. Or press Enter (on the keyboard), if X-Lite Beta is the active application.
Decline	Call panel or Call Alert box	Click Decline. There will be a busy signal. The call may be directed to voicemail (if you have this service).

3.6 Handling an Established Call

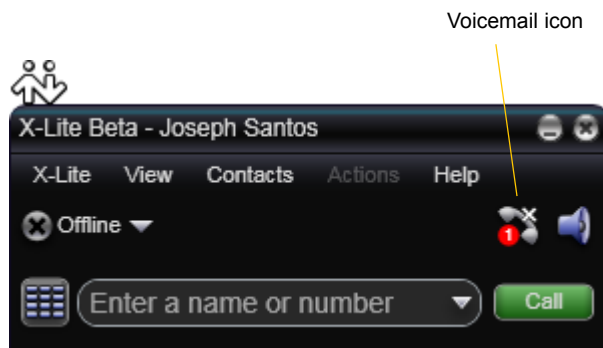
While the call is in progress you can:

- Control the audio: use the speakerphone, mute the call, control volume.
- Put the call on hold.



3.7 Voicemail

If your service includes voicemail and you have set up voicemail options (page 34), then when you have voicemail messages, a number appears beside the voicemail icon at the top of the phone. You can click the icon to automatically connect to voicemail and listen to your messages.




3.8 Instant Messaging

Instant messages are made using softphone addresses. Therefore, you can send or receive an instant message (IM) to:

- Any contact who has a softphone address.
- Any party who phoned you from a softphone address.
- Any party whom you phoned using a softphone address.

Sending an IM

1. There are several ways to select the person to send an IM to.

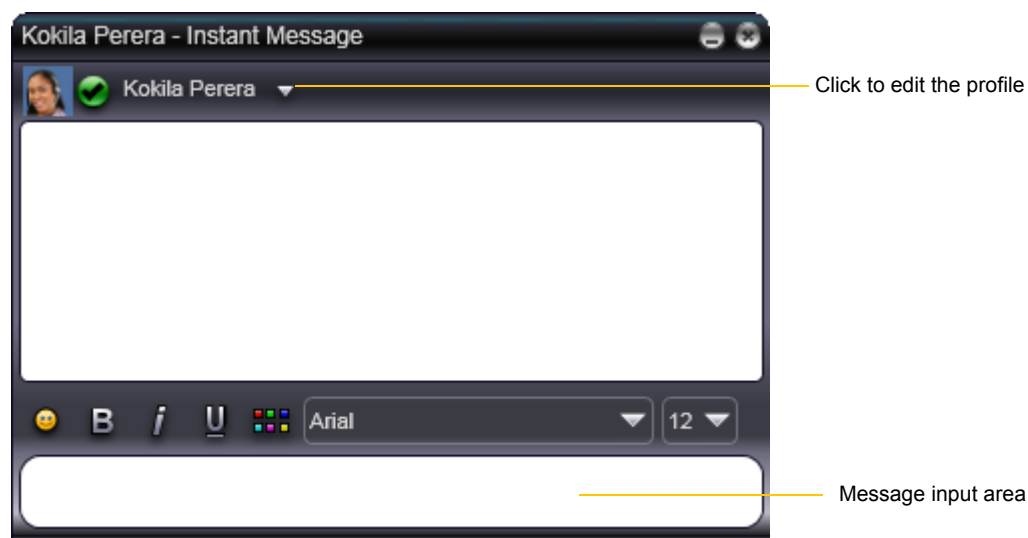
From the Contacts tab	Right-click on the contact and choose Send Instant Message. The contact must have a softphone address.
An active phone call	The person in the active phone call. Click  on the call panel for this phone call.

The Instant Message window appears.

2. Type the message. Include emoticons and formatting, as desired.

To insert a return in the message, press Ctrl+Enter. (You can control the behavior of Enter and of Ctrl+Enter; see page 42)

3. Press Enter.



Receiving an IM

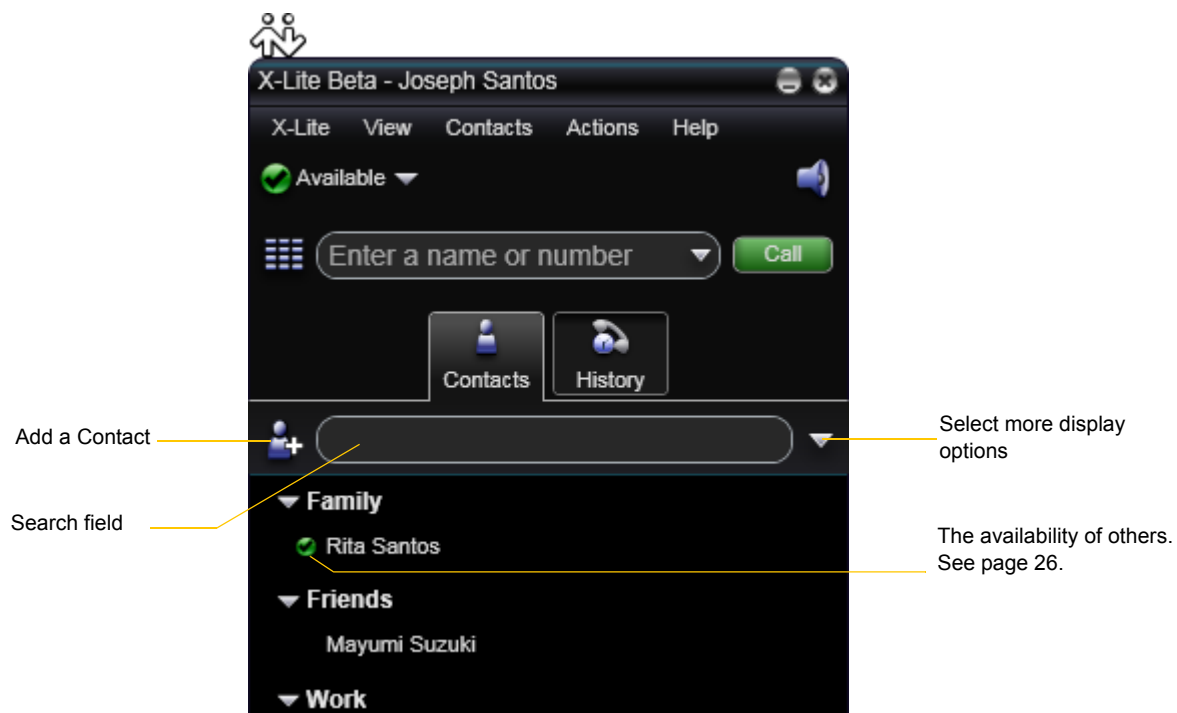
When an IM is received, the IM window pops up.

4 Using the Directory

The Directory provides access to the following:

- Contacts.
- Call history. See page 25.
- Contact availability (presence). See page 26.

4.1 Contacts Tab



The Contacts tab displays your contacts and lets you specify multiple contact methods for them, including:


- Softphone address
- Home phone number, business phone number, mobile phone number

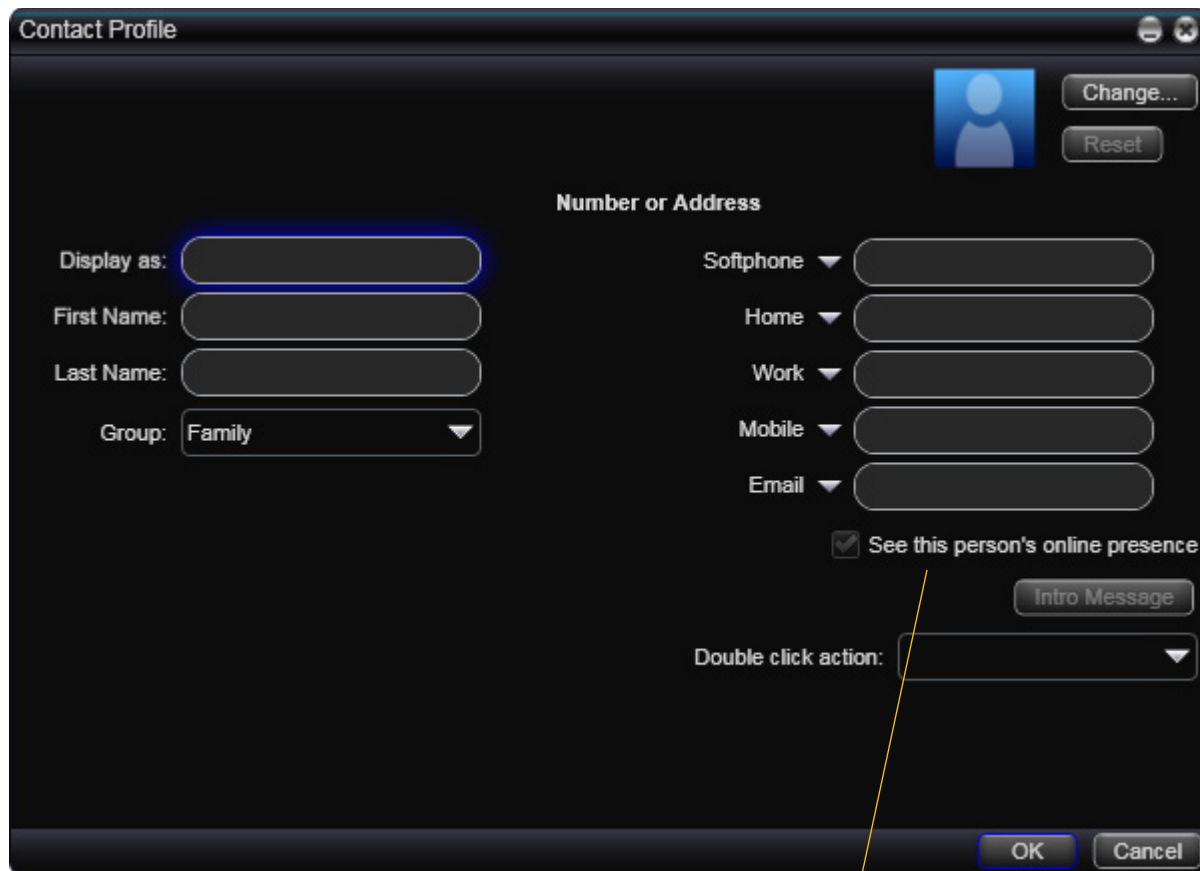
You can identify one of these contacts as the primary contact method. When you double-click a contact, the action associated with that method is performed: typically either phone or IM.

Contacts are typically organized into groups. X-Lite Beta includes built-in groups: “Family”, “Friends” and “Work”. You can add more groups, as desired.

Setting up Contacts

Adding a Contact

Click , or right-click a group and choose Add Contact to Group. The Contact Profile dialog appears. See the table.



On a new contact, this checkbox and the Intro Message button become enabled once you enter a softphone address. On an existing contact, they become enabled if you enter another softphone address.

Table 1: Contact Profile Fields

Field	Description
Contact name	Only the “Display as” name is required. This is the name that will appear in the call panel and the Call Alert when this person phones you.
Group	Click to show the list of groups and check each group to add this contact to.
Number or Address	You must enter at least one contact method. Enter as many contact methods as you want. Softphone entries and e-mail entries must have the format <name>@<domain>.
See this person’s online presence	This box becomes enabled only if you have entered a softphone address.
Intro Message	This button becomes enabled only if you have entered a softphone address.
Double-click action	Choose the desired method. This method will be used when you double-click this contact. For example, if you choose “IM:kperera@domainA.com”, then double-clicking this contact will open an IM window using this address (rather than any of the other addresses that exist for this contact).
Other fields	Complete as desired.

Adding a Contact using an Existing Address

You can add a contact by capturing existing information. On the History tab, select an entry that is not a contact. Right-click and choose Add as Contact.

The Contact Profile dialog appears. Complete the dialog as desired and press OK.

If the contact method is Softphone, an online status request is sent to this person. See “Sharing Availability” on page 26.

Managing Contacts

Changing Contact Information

To change the information for a contact, right-click the contact and choose Edit Profile. The Contact Profile dialog appears (see page 22).

Moving or Deleting a Contact

- To drag one or more contacts to a different group, select them and drag to the title bar of the new group.
- To delete one or more contacts, select them, right-click, and choose **Delete**. The contacts are removed from this group. If a contact belongs to several groups, it is removed from all groups.

Adding, Deleting or Renaming Groups

Select any group, right-click, and choose the appropriate menu item.

Using Contacts

Phone or IM the person

- Double-click the contact to start a phone call or IM to the person (depending on how double-clicking is configured in the contact’s profile).
- Drag the contact to the call entry field to start a phone call.

Phone the person

Right-click and choose Call, then click the desired number.

Send an IM

Right-click and choose Send Instant Message. See page 20.

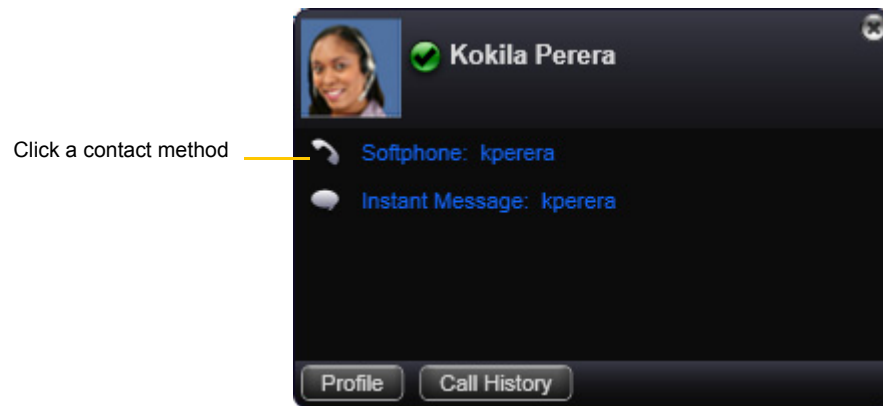
You can watch the contact’s availability, if the contact has a softphone address

See Table 2 on page 28 for the meaning of the availability icons.

See “Availability” on page 26 for information on obtaining availability information.

Contact Flyout

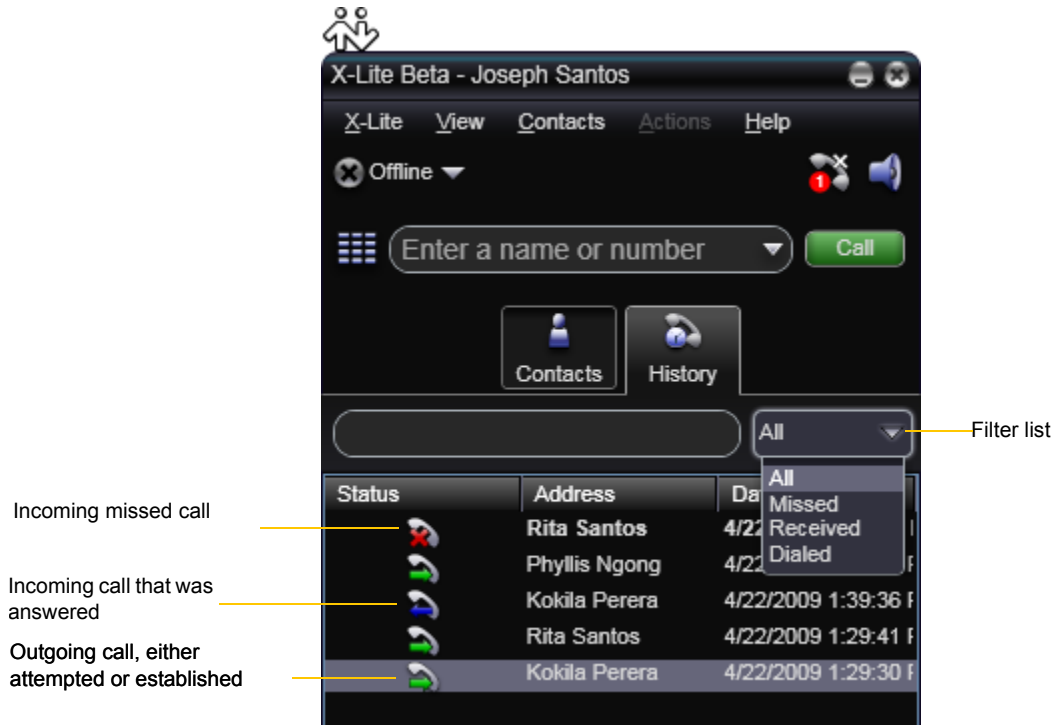
Left-click on a contact to show the Contact flyout. This flyout shows all the contact methods set up for the contact. You can click a contact method to perform its action.



Finding a Contact

If the contact list is long, filter or search the list. To clear the filter and display all contacts again, click the X.

4.2 History Tab



Managing the Lists of Calls

You can right-click on an entry in a list to:

- Delete the call.
- Delete all entries in this list.
- Edit the profile if the entry is a contact.
- Add as contact. The Add a Contact dialog appears. For more information on this dialog, see “Adding a Contact using an Existing Address” on page 23.

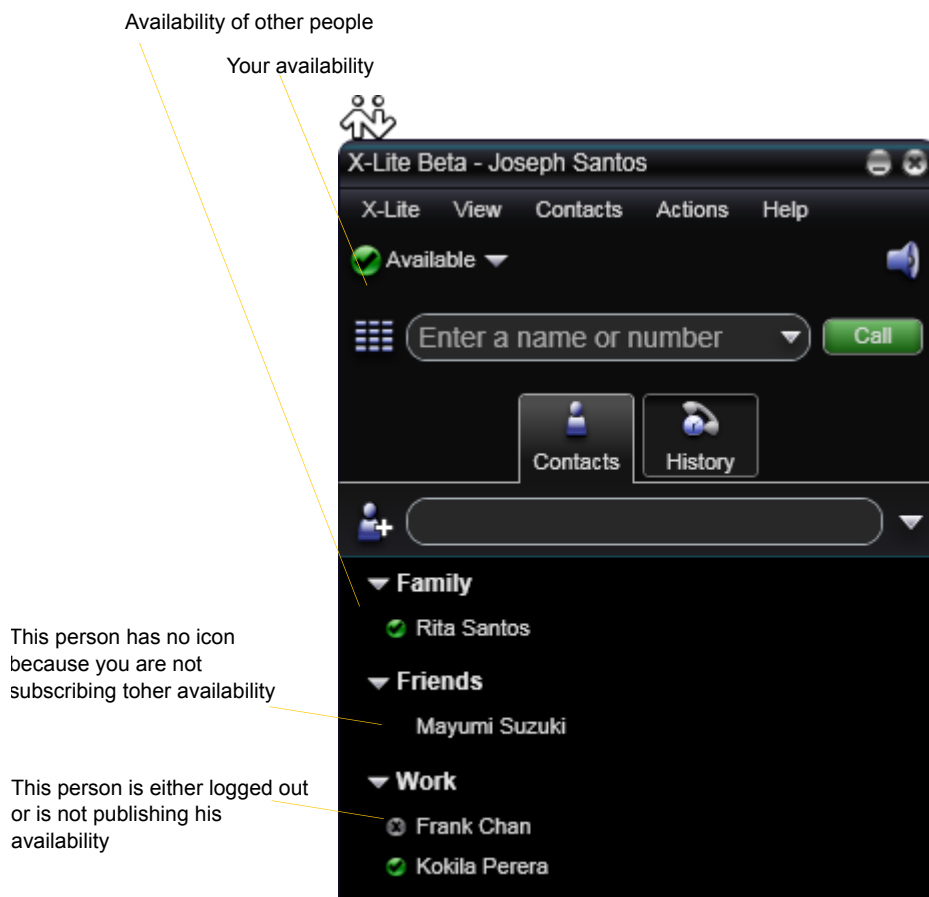
Phoning from History

You can right-click on an entry to place a call to this person, using the contact method that was used for this call. You can also double-click to place a call.

4.3 Availability

Availability refers to the ability to see whether a person is available or not: online, on the phone, busy, and so on.

You can publish your availability to contacts who have softphone address, and you can set up X-Lite Beta to view the availability of other contacts.



Sharing Availability

Watching Others' Availability

When you create a contact by entering details in the Contact Profile, the contact is automatically set up so that you share availability. As soon as the person is set up in this way in your Contacts, X-Lite Beta sends them a notification request. The request asks that you be able to see that person's availability. If the person allows this request, then the icon beside their name (in your Contacts) becomes color coded, so you can determine their availability.

Allowing Other Parties to See your Availability (Publishing your Availability)

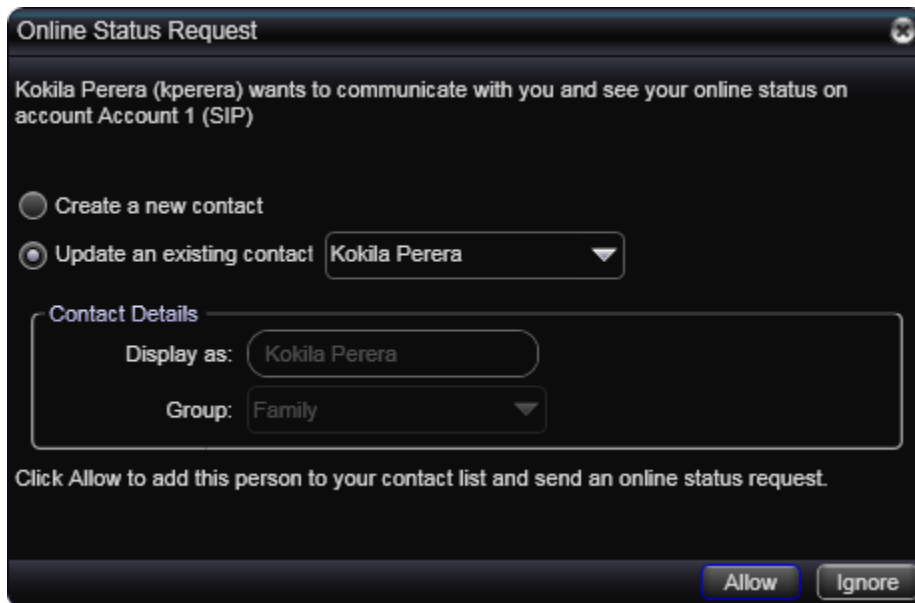
Continuing from above, when the other person allows the notification request, your name is added to their contact list. As soon as you are added to their list, a request is sent back to you requesting that they be able to see you. X-Lite Beta accepts this request automatically, and the other person can now see your availability.

Receiving an Online Status Request

When someone who is not one of your contacts has you as a contact on their end, you receive an Online Status Request.

The request appears to you as an Online Status Request. You must respond to the request:

- Allow the request and create a new contact using this address. This option is selected for you if you do not currently have a contact with this SIP address.
- Allow the request and update the contact to allow the person to see your presence. This option is selected for you if you already have a contact with this SIP address but you were not previously sharing presence with this person.



Button	Result
Ignore	The other person will not be able to see your availability. The Online Status Request may appear again in this session or a future session
Allow	<p>The other person will be:</p> <ul style="list-style-type: none"> • Able to see your availability. • Added to your contacts. <p>Because you allow the request, you will no longer be bothered by requests from this person.</p> <p>In addition, this same request will automatically be sent from your X-Lite Beta to the other person, so that you can see their availability.</p>

Setting your Availability

Changing your Availability

Click the down arrow beside the availability indicator on X-Lite Beta, and select the desired availability. See Table 2, below.



When your availability changes, the new availability is sent to everyone who has permission to see your availability.

Setting up Availability Indicators

You can create custom availability indicators, or edit or delete custom or built-in indicators: click the down arrow beside the availability indicator, and choose Custom Message.

Table 2: Availability Indicators







Indicator	Meaning for your Availability	Meaning for Others' Availability
 Available	Either: <ul style="list-style-type: none"> You have set your availability to this status. X-Lite Beta has determined that you are logged on but not on the phone or idle. When you have this availability, X-Lite Beta will automatically detect when you are idle or on the phone, and change the availability to match.	You can contact this person.
 Busy	You have set your availability to this status. X-Lite Beta will never automatically switch you out of this status; you must switch yourself.	You can contact this person.
 Away	You have set your availability to this status. X-Lite Beta will never automatically switch you out of this status; you must switch yourself.	You can contact this person.

Table 2: Availability Indicators

Indicator	Meaning for your Availability	Meaning for Others' Availability
 On the phone	Either: <ul style="list-style-type: none"> • You have set your availability to this status. In this case, X-Lite Beta will never automatically switch you out of this status; you must switch yourself. • You started a phone call when your status was "Available". When your call finishes, your status reverts to "Available". 	You can contact this person.
 Idle	You have not moved or clicked the mouse or pressed a keyboard key for the Idle period. As soon as you click the mouse or keyboard, your status changes to "Available".	You can contact this person.
 Offline	You have set your availability to this status. The other person sees you as offline, even though you are not actually offline. The other person cannot tell the difference between this status and you really being offline.	The contact is either not logged on or else is not set up for availability.
No icon	Not applicable	You are not watching the other person's availability.

5 Configuring X-Lite Beta

You can configure X-Lite Beta in several ways:

- Configure global behavior. See “Configuring Preferences” on page 42.
- Configure the behavior on a per-account basis. See “Configuring Accounts” on page 32.

5.1 Configuring Accounts

Choose X-Lite Beta > Accounts. The Account Settings window appears.

SIP Account Properties – Account

The red dot indicates that these fields are required

The screenshot shows the 'Account Settings' dialog box with the 'Account' tab active. The 'User Details' section contains fields for 'User ID' (jsantos), 'Domain' (domainA.com), 'Password', 'Display name' (Joseph Santos), and 'Authorization name'. The 'Domain Proxy' section has a checked checkbox for 'Register with domain and receive calls' and radio buttons for 'Domain' and 'Proxy'. The 'Dial plan' field is empty. Red asterisks are placed next to the 'User ID' and 'Domain' labels. A yellow arrow points from the text above to the red asterisks.

Table 3: SIP Account Properties – Account

Field	Description
Account name	If desired, change the account name to something that is meaningful to you. For example, the name of the VoIP service provider.
Protocol	Read-only. Always specifies SIP.
User Details	
User ID	Typically the account number for the softphone account. For example, kperera. Provided by your VoIP service provider.
Domain	For example, domainA.com. Provided by your VoIP service provider.
Password	Provided by your VoIP service provider.

Table 3: SIP Account Properties – Account

Field	Description
Display name	This name is displayed in the X-Lite Beta title bar. Other people will see you as this name.
Authorization name	May not be required. If it is required, it will be provided by your VoIP service provider.
Domain Proxy	
Register with domain and receive calls	Check this box if you want to register with your VoIP service provider, so that you can receive incoming calls. Typically, this field is checked. This field may be left unchecked when, for example, your level of service does not include the ability to receive incoming calls. In that case, turning this field on may cause registration to fail (when you close the Account Properties window), meaning that your X-Lite Beta cannot register with your VoIP service provider.
Send outbound via	Choose the setting specified by your VoIP service provider: <ul style="list-style-type: none"> • Domain: If your VoIP service provider requires that traffic be directed to proxies that are discovered via the domain. • Proxy Address: If your VoIP service provider has an outbound proxy address and requires that you provide the address to X-Lite Beta. For the address enter a domain name (for example, domain.com) or an IP address (for example, 123.456.789.012). If you are using X-Lite Beta in a test lab, it is possible that neither of these settings is suitable; see page 41 for a third way to direct traffic.
Dial Plan	Information about the syntax of the numbers used by this VoIP service provider. Provided by the service provider. For information on determining whether you need to create a dial plan, see page 51.

SIP Account Properties – Voicemail



The screenshot shows the 'Account Settings' dialog box with the 'Voicemail' tab selected. The dialog has a title bar with a close button. Below the title bar are six tabs: 'Account', 'Voicemail', 'Topology', 'Presence', 'Transport', and 'Advanced'. The 'Voicemail' tab is active and contains the following settings:

- Check for voicemail
- Number to dial for checking voicemail:
- Number for sending calls to voicemail:
- Send calls to voicemail if unanswered for: seconds
- Forwarding**
 - Always forward to: (mailbox@domain.com or 555-5555)
 - When on the phone, forward to:



At the bottom right of the dialog are 'OK' and 'Cancel' buttons.

These settings let you set up to interact with your VoIP service provider's voicemail service. They also let you configure X-Lite Beta to forward calls in several situations, independent of your VoIP service provider's voicemail service.

Your service provider may provide the ability to set up for voicemail outside of X-Lite Beta, for example, by phoning a softphone address and following the voice prompts, or by accessing a website.

Check with your service provider to determine if another setup mechanism is available. If so, check what the settings are in that setup, and make sure you enter compatible information in X-Lite Beta.

Table 4: SIP Account Properties – Voicemail

Field	Description
Check for voicemail	<p>Set the checkbox in one of these ways:</p> <ul style="list-style-type: none"> • Check the box if X-Lite Beta must subscribe to be notified when there is a voicemail for you. In other words, to configure for “subscribe for message waiting”. • Clear the checkbox if the service provider’s voicemail server sends notifications without X-Lite Beta subscribing. In other words, to configure for “implicit subscription”. • Clear the checkbox if the service provider does not support voicemail. <p>Check with your VoIP service provider for the correct configuration.</p> <p>Voicemail is offered by your VoIP service provider; it is not part of X-Lite Beta. Contact your service provider for information on using voicemail.</p>
Number to dial for checking voicemail	<p>Optional, but complete this field only if your VoIP service includes voicemail.</p> <ul style="list-style-type: none"> • Completing this field activates the  icon on the softphone. When you click the  icon, X-Lite Beta will dial this number. You will be connected to your service provider’s voicemail and can listen to your messages. • If you leave this field empty, then this icon will not work; you will have to manually dial this number in order to connect to voicemail. <p>Enter the number or SIP address provided by your VoIP service provider.</p>
Number for sending calls to voicemail	<p>Complete only if your VoIP service includes voicemail. Optional, but you must complete it if you check “Send calls to voicemail if unanswered”.</p> <p>This is the number that incoming calls will be forwarded to if they are unanswered after the specified interval (below).</p> <p>If you leave this field empty, then X-Lite Beta will never forward calls to your service providers’ voicemail. However, most VoIP service providers have their own mechanism for sending unanswered phone calls to voicemail. So leaving this field blank does not mean that forward-to-voicemail does not work.</p> <p>Enter the number provided by your VoIP service provider.</p>
Send calls to voicemail if unanswered	<p>Complete only if your VoIP service includes voicemail.</p> <p>To send to voicemail after the specified number of seconds.</p> <p>Your service provider may also provide a similar feature that is set up outside of X-Lite Beta. If so, make sure you do not enter competing information in X-Lite Beta and in the service provider’s user interface. For example, if you turn off this field, make sure the same feature at your service provider is also turned off. Otherwise, all your calls will continue to be forwarded.</p>
Always forward to this address	<p>You can use this feature even if your VoIP service does not include voicemail.</p> <p>To always forward phone calls, click the box and enter the address to forward to. Phone calls received on other accounts (if you have them) are not affected by enabling this field.</p> <p>Always forward works only when X-Lite Beta is running and only if your VoIP service provider supports redirect.</p>
Forward to this address when busy	<p>You can use this feature even if your VoIP service does not include voicemail.</p> <p>To forward only when you are on another phone call, click the box and enter the address to forward to. Phone calls received on other accounts (if you have them) are not affected by enabling this field.</p> <p>Always forward works only when X-Lite Beta is running and only if your VoIP service provider supports redirect.</p> <p>Your service provider may provide a similar feature that is set up outside of X-Lite Beta. If so, make sure you do not enter competing information in X-Lite Beta and in the service provider’s user interface. For example, if you turn off this field, make sure the same feature at your service provider is also turned off.</p>

SIP Account Properties – Topology

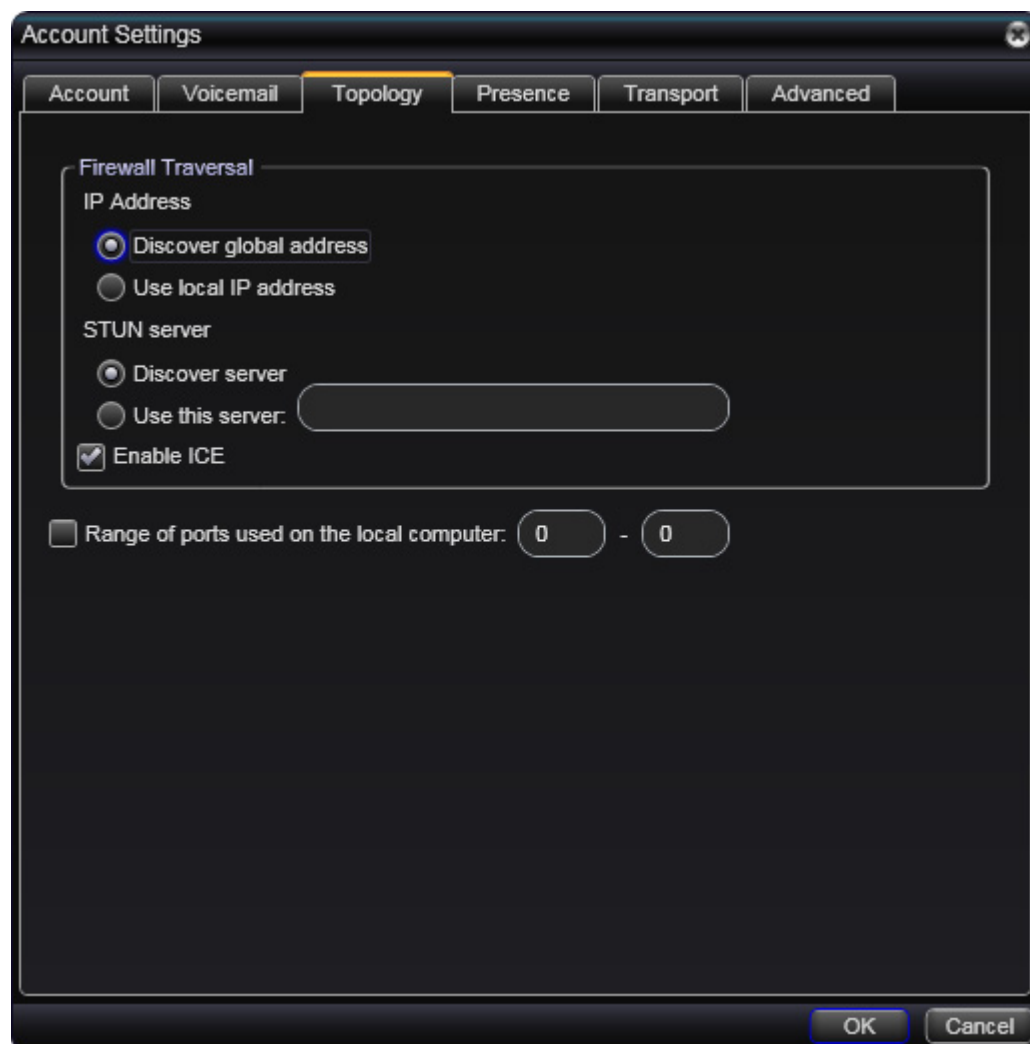


Table 5: SIP Account Properties – Topology

Field	Description
IP Address	<p>This setting controls how your IP address is presented.</p> <ul style="list-style-type: none"> Discover global address: Let X-Lite Beta determine your public IP address. This is the recommended setting unless your VoIP service provider advises otherwise. Use local IP address: use the IP address of the X-Lite Beta computer. <p>The recommended setting is Discover global address.</p>
STUN Server	<p>This setting specifies the STUN server to use.</p> <ul style="list-style-type: none"> Discover the server: Choose this option to let X-Lite Beta find the address of a STUN server. Use this server: To use a different STUN server. For the address enter a domain name or an IP address. <p>The recommended setting is Discover server.</p>
Enable ICE	<p>ICE optimizes traffic and may help with firewall traversal.</p> <p>Typically, ICE is enabled. However, it may need to be disabled if your VoIP service provider has implemented a firewall traversal solution that is not compatible with ICE enabled.</p> <p>If you have problems with calls, contact your VoIP service provider for information on their firewall traversal solution.</p>

Table 5: SIP Account Properties – Topology

Field	Description
Range of ports used on local computer	<p>The appropriate setting depends on your computer setup:</p> <ul style="list-style-type: none">• Checked: If your computer is behind a restrictive firewall that only allows specific port ranges to be used. Enter the range of ports to use for your SIP account. (You must also open those ports on your firewall; refer to applicable firewall documentation for information.)• Unchecked: If your computer is not behind a restrictive firewall.

SIP Account Properties – Presence

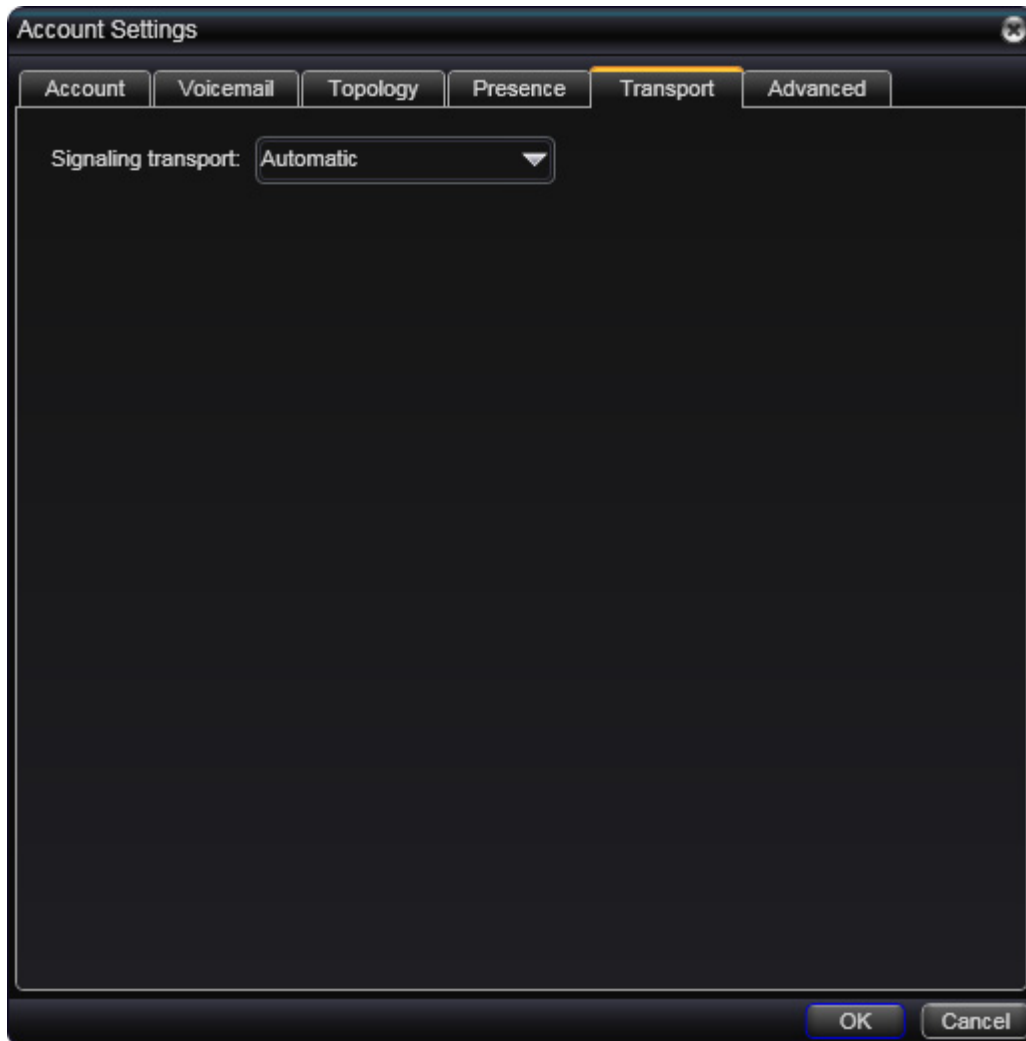


Presence allows your contacts to see your online availability and allows you to see the online availability of contacts. See “Availability” on page 26.

Table 6: SIP Account Properties – Presence

Field	Description
Mode	Choose the setting specified by your VoIP service provider: <ul style="list-style-type: none"> • Disabled: Presence is not supported. • Peer-to-Peer.
Poll time	Enter the value specified by your VoIP service provider.
Refresh interval	Enter the value specified by your VoIP service provider.

SIP Account Properties – Transportation



Contact your VoIP service provider to identify the types of transport that are supported. Then choose a supported transport:

- Automatic: X-Lite Beta sets up the transport based on the capabilities of the network and the X-Lite Beta computer. Choose this option if you do not care which transport is used.
- TCP
- UDP

SIP Account Properties – Advanced

Account Settings

Account Voicemail Topology Presence Transport **Advanced**

Register Settings

Register every: 3600 seconds

Minimum time: 20 seconds

Maximum time: 1800 seconds

Timers

Enable session timers

Session timer preference: None

Default session time: 60 seconds

Send SIP keep-alives

Use rport

Send outgoing request directly to target

OK Cancel

Table 7: SIP Account Properties – Advanced

Field	Description
Register Settings	
Reregister every	The time interval between X-Lite Beta's attempts to reregister in order to refresh the account registration with the VoIP service provider for this account. A value of zero means not to reregister after the initial registration. This value is placed in the "Expires" header field of the REGISTER message.
Minimum time	If the reregistration fails, X-Lite Beta will wait this amount of time, then attempt to reregister. If the second attempt fails, X-Lite Beta will wait twice this time and try again, then four times this time, and so on, until reregistration succeeds.

Table 7: SIP Account Properties – Advanced

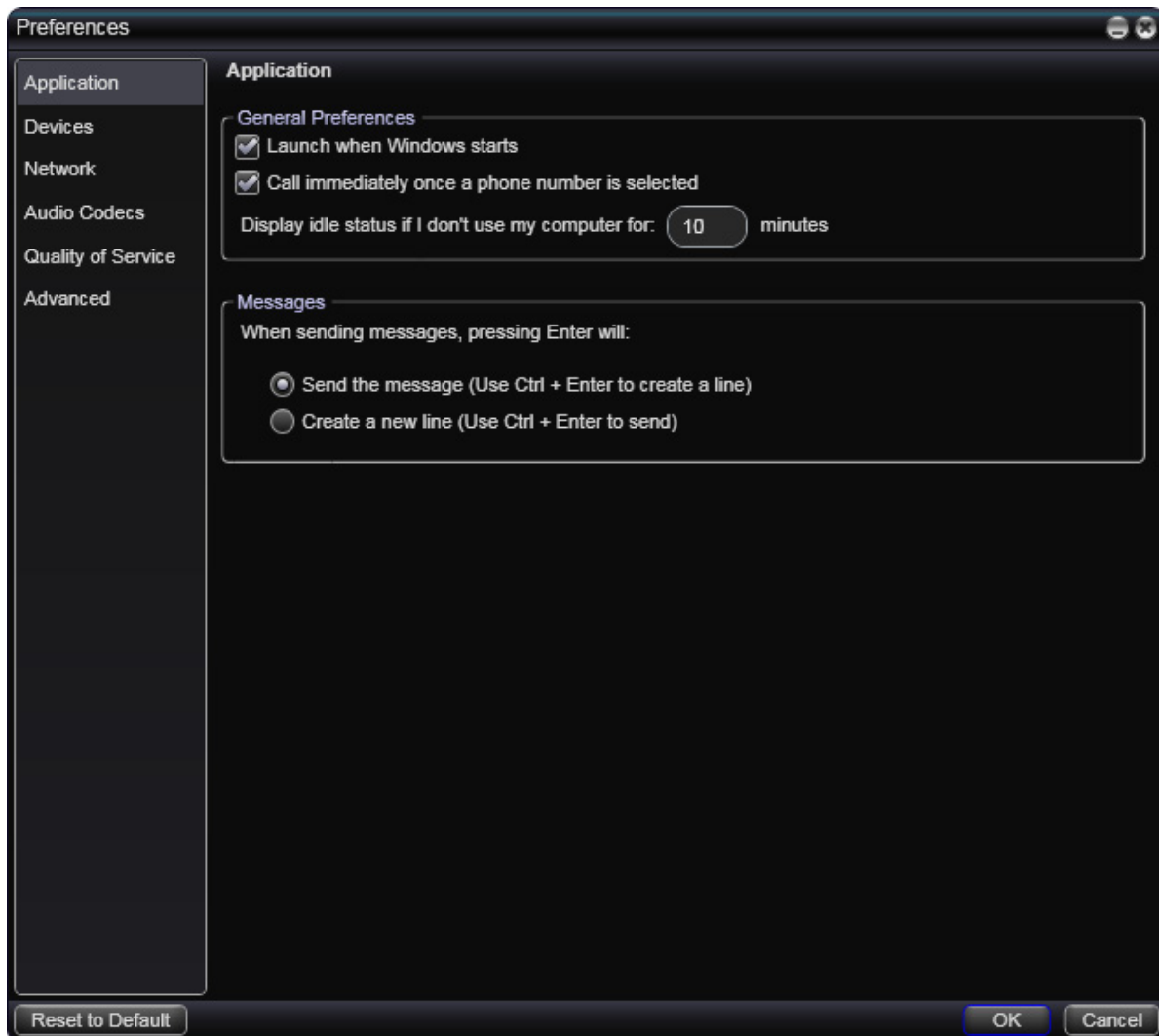
Field	Description
Maximum time	<p>This is the maximum wait time between attempts to reregister. Once this maximum is reached, X-Lite Beta will wait this time for all subsequent attempts.</p> <p>For example, the min. time is 20 secs, the maximum time is 120 secs. X-Lite Beta will attempt to reregister as follows:</p> <ul style="list-style-type: none"> • Wait 20 secs. • Attempt to connect. • If fail, wait 40 secs. • Attempt to connect. • If fail, wait 80 secs. • Attempt to connect. • If fail, wait 120 secs (the maximum) • Attempt to connect. • If fail, wait 120 secs, and so on.
Timers	
Enable session timers Default session time	<p>A session timer is a mechanism to detect whether a call session is still active from the signaling point of view. When the timer expires, a refresh is sent from one party to the other. The timer is then reset.</p> <ul style="list-style-type: none"> • Turn on to enable session timer. Enter a value in Default session time. • Turn off to disable session timer; refreshes will never be sent.
Session timer preference	<p>This field specifies your preference for which party should send the refresh. The preference is not a guarantee that the refresh will be performed by the specified party. The choices are:</p> <ul style="list-style-type: none"> • None: No preference. • Local refreshes: Your computer sends. • Remote refreshes: The other party sends. • UAC refreshes: The user agent client (the party that initiated establishment of the communications) sends. • UAS refreshes: The user agent server (the other party) sends.
Send SIP keep-alives	Typically on, to instruct X-Lite Beta to send SIP keep-alive messages in order to maintain a “pinhole” through your firewall for SIP messaging.
Use rport	Typically on.
Send outgoing request directly to target	<p>When checked, requests with a complete URI (user@ABC.com) go to ABC.com and the “Send outbound via” field on the Account tab (page 32) is ignored.</p> <p>If you check this field, make sure you also set “Send outbound via” (on Accounts > Account) to “Domain”.</p> <p>Typically off. This field is intended for test labs and may cause problems in a NAT environment.</p>

5.2 Configuring Preferences

Choose X-Lite Beta > Preferences. The Preferences window appears.

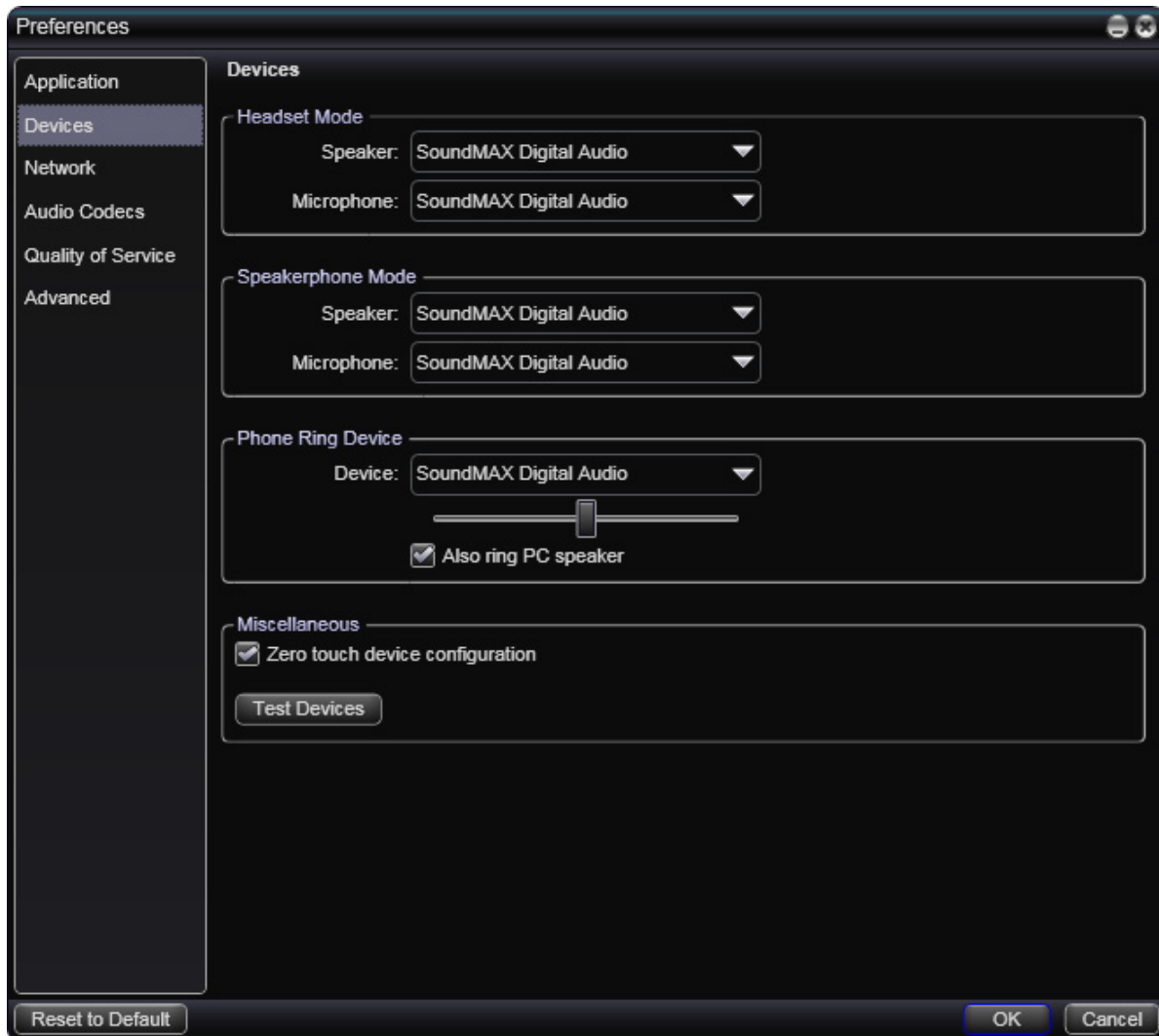
The Preferences panels let you control the way that you work with X-Lite Beta.

Preferences – Application



This panel lets you set your preferences for general GUI behavior.

Preferences – Devices



X-Lite Beta automatically detects devices at each startup, and selects the most appropriate device for each purpose. If you do not like this selection, you can override it on this panel.

If you override a selection, it will apply the next time you start X-Lite Beta, unless the device is no longer available, in which case X-Lite Beta will again select the device to use.

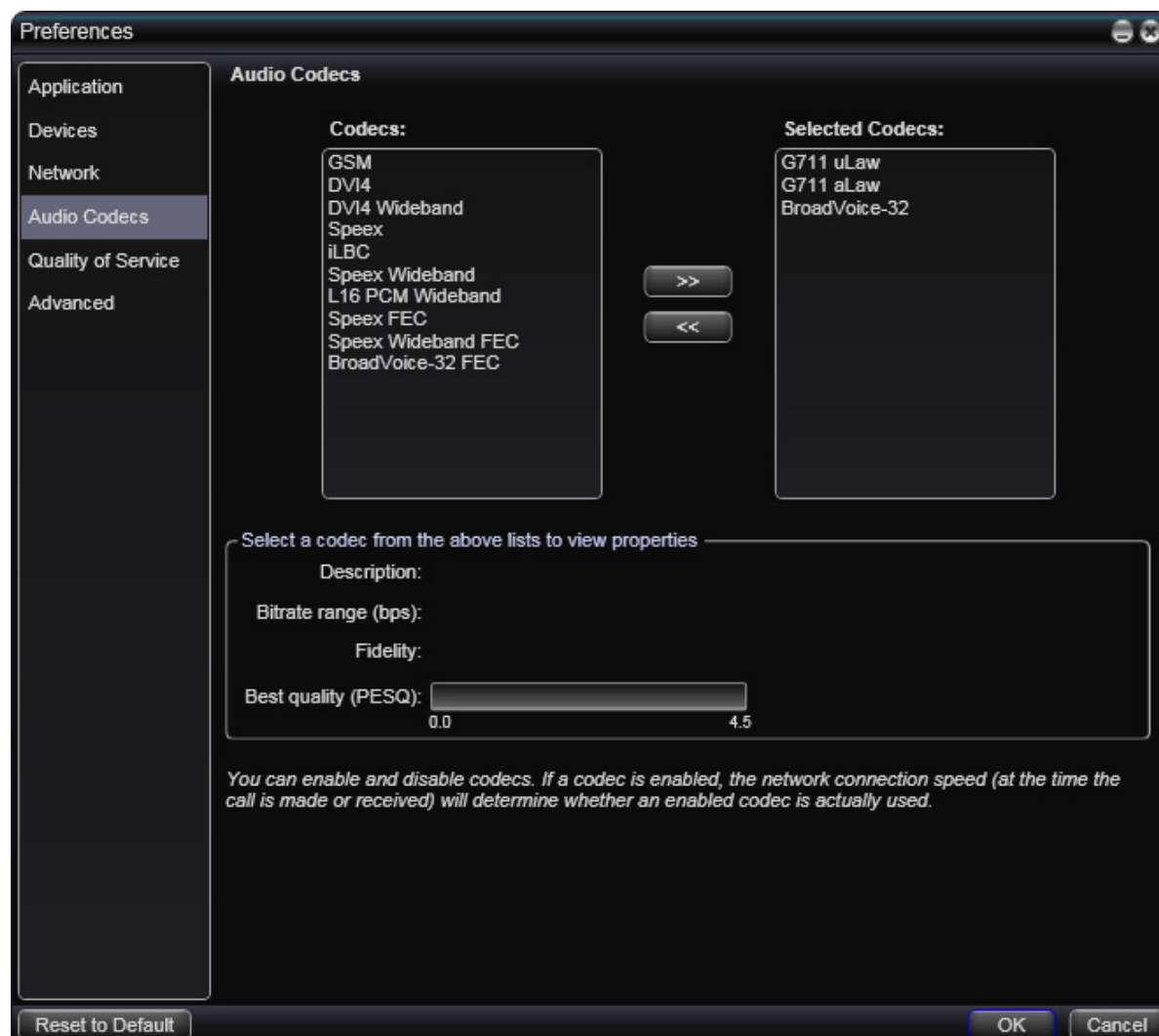
Field	Description
Headset Mode	
Speaker Microphone	<p>Change these fields only if you want to override the devices that X-Lite Beta automatically selected.</p> <p>In both these fields, select the headset you are using.</p> <p>The headset is the device that is usually used for audio out (the sound you hear) and audio in (recording your voice). The only situation in which the headset is not used is when the Speaker Phone button on the dialpad is pressed.</p> <p>Therefore, unless you will always be using X-Lite Beta in speakerphone mode, you must make a selection here.</p> <p>Select the headset in both the Speaker device field and Microphone device field.</p>
Speakerphone Mode	
Speaker	<p>Change this field only if you want to override the devices that X-Lite Beta automatically selected.</p> <p>Make the appropriate choice:</p> <ul style="list-style-type: none"> • Select the device that you want to use for audio out (the sound you hear) when the Speaker Phone button is pressed. Make sure you select a speaker device (not the headset). • Select None if you do not have a speaker phone. The Speaker Phone button on the dialpad is disabled.
Microphone	<p>Change this field only if you want to override the devices that X-Lite Beta automatically selected.</p> <p>Make the appropriate choice:</p> <ul style="list-style-type: none"> • Select the device that you want to use for audio in (recording your voice) when the Speaker Phone button is pressed. <p>It can be any microphone: it does not have to be the microphone on the device you specified as the speaker device. For example, it can be the microphone on your camera.</p> <ul style="list-style-type: none"> • Select None if you do not have a speaker phone. The Speaker Phone button on the dialpad is disabled.
Phone Ring Device	
Device	<p>Change this field only if you want to override the devices that X-Lite Beta automatically selected.</p> <p>The device where you want to hear the phone ringing: the headset, the speakerphone, or none.</p>
Volume	The volume of the ringer.
Also ring PC speaker	Click on or off, to suit your preference.
Miscellaneous	
Zero-touch device configuration	Typically, leave on. When device configuration is on, if you change your audio device, X-Lite Beta will automatically detect the new device and start using it.
Test Devices	For information on the Test Devices button, see page 6.

Preferences – Network



Field	Description
Network Connection Speed	<p>Select the type of network connection for your computer.</p> <p>The sliders move to show the bitrate that will be used for sending and receiving. These rates are typical rates for the selected configuration.</p> <p>If you know that your computer and network can handle a faster sending speed, click Custom and move the slider.</p> <p>It is recommended that you not change the receiving speed.</p> <p>You will know that you have set the sending speed too high if the remote audio is garbled.</p>
Preserve bandwidth	<p>When this feature is on, X-Lite Beta stops sending audio when you are not talking.</p> <p>When this feature is off, X-Lite Beta always sends audio, which uses more bandwidth but may result in better call quality.</p> <p>Typically off. However, if you are using a slow (dial-up or ISDN) connection, you may want to turn it on.</p>

Preferences – Audio Codecs



This panel shows all the codecs that are included in X-Lite Beta. You can enable or disable codecs as desired.

With only one codec enabled, all calls made will use that codec. With more than one codec enabled, X-Lite Beta automatically chooses the best codec based on the other party's capability, the available bandwidth, and network conditions.

You cannot change the properties of any codecs.

About Codecs

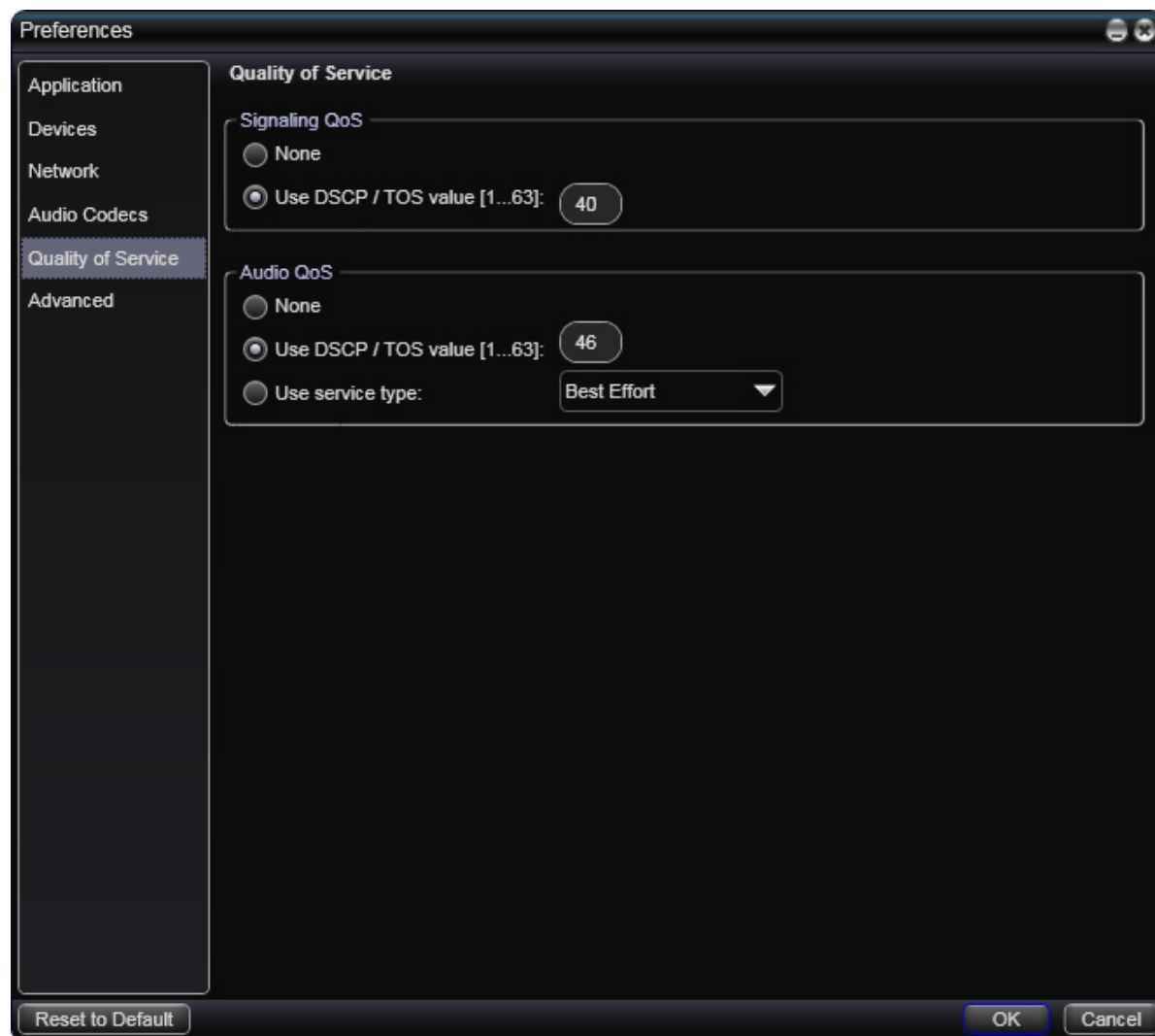
Audio codecs describe the format by which audio streams are compressed for transmission over networks. Codecs can be categorized as either narrowband or wideband:

- Narrowband codecs work with low bandwidth such as a dialup internet connection. These codecs have a sampling rate of 8 kHz.
- Wideband codecs work with high bandwidths and result in better audio quality. However, they do not work with PSTN. These codecs have a sampling rate of 16 kHz.

Supported Codecs

Codec	Narrowband	Wideband
Broadvoice-32		✓
Broadvoice-32 FEC		✓
DVI4	✓	
DVI4 Wideband		✓
G.711aLaw *	✓	
G.711uLaw *	✓	
GSM	✓	
iLBC	✓	
L16 PCM Wideband	✓	
Speex	✓	
Speex FEC	✓	
Speex Wideband		✓
Speex Wideband FEC		✓
* Generally, at least one of these codecs must be enabled in order to place a PSTN (land line) call.		

Preferences – Quality of Service



The Quality of Service panel lets you request a specific transport service for audio and signaling traffic.

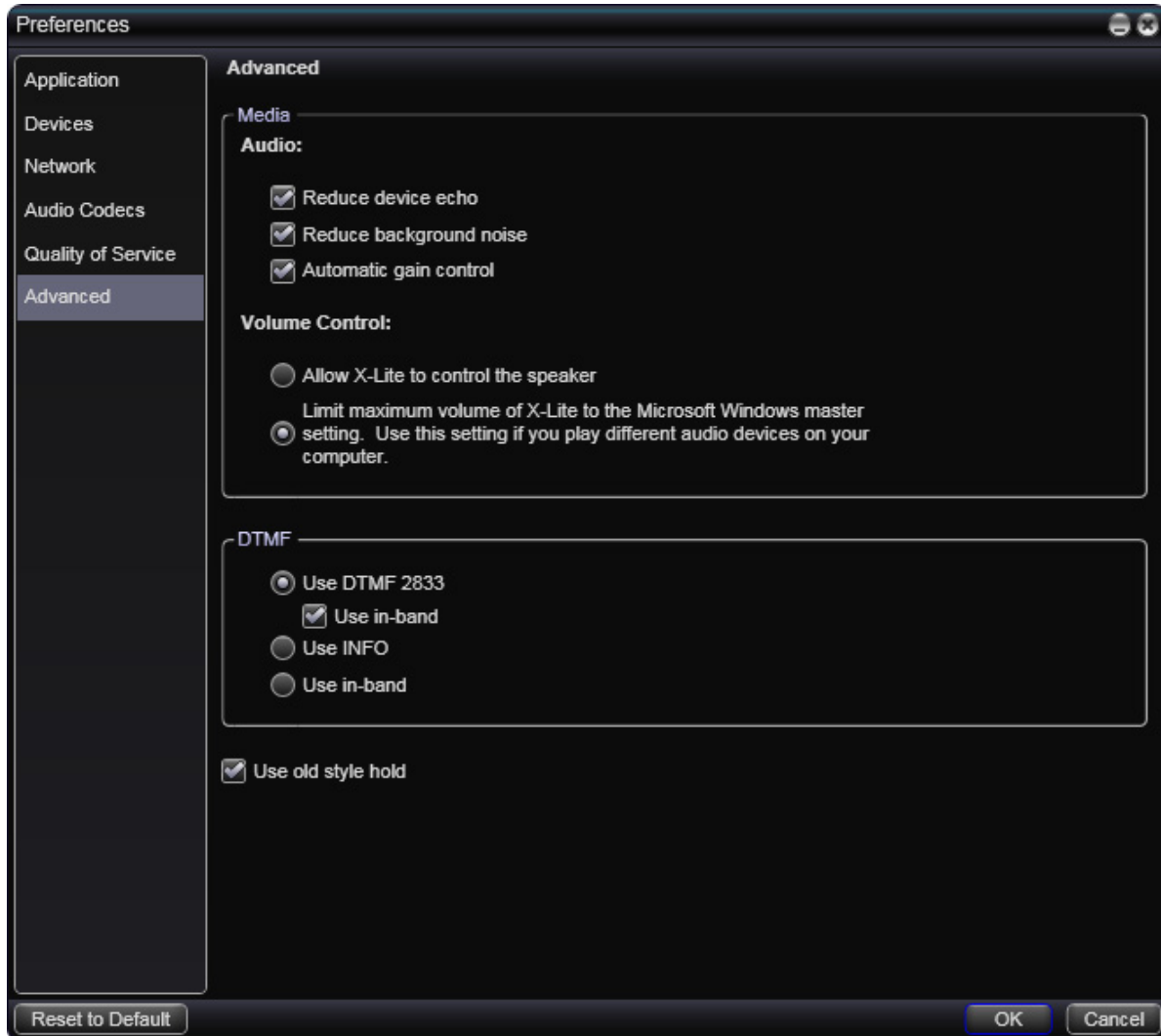
There are two types of services. The service to use depends on what your internet service provider supports:

- GQoS, which is available for audio.
- DSCP (also known as ToS), which is available for audio and signaling.

In a network that has the default configuration, the recommended value for audio is 46, because “46” is the standard marking for audio.

X-Lite Beta supports 802.1p QoS packet tagging. If you set up for QoS, X-Lite Beta will include the specified information in the packets that it sends to the network provider. Whether the packet is delivered with the specified service depends on whether your broadband router and the network provider between you and the other party supports multiple transport services. In other words, whether each network provider reads the QoS information and prioritizes packet delivery based on the requested service.

Preferences – Advanced



Field	Description
Audio	
Reduce device echo	Turning this feature on improves sound quality. This feature is typically on.
Reduce background noise	Automatically attempts to remove background noise. Typically on for the speakerphone.
Automatic gain control	This feature is typically on.
Volume Control	Choose the setting that suits
DTMF	You may need to change the DTMF configuration if you cannot interact with interactive voice response systems (auto attendants, voice-activated menus, and so on).
Use old style hold	Change this setting only if your VoIP service provider advises you to do so.

A Dial Plan

When a call attempt is made, the call input (what you type, select or drag onto the call entry field) is processed to select the SIP account to use and to modify the input if that is required to ensure that the call gets placed successfully. This ability to select an account and modify the input relies on the existence of a “dial plan”.

The input is processed as follows:

- Cleanup: Input is cleaned up by removing spaces, dashes, open brackets, and close brackets.
- Matching: The input is compared to the patterns defined by the dial plan for the account. Each dial plan has one or more patterns.

When a match is found between the input and the pattern, the account that this pattern belongs to is selected and the transformation for this pattern is performed.

If no match is found, the default account is selected and no transformation is performed.

For details on matching see “How the Input Is Processed” on page 54.

- Transformation: The selected transformation is performed.
- Then the call is placed using the transformed input.

The Default Dial Plan

The default dial plan is:

```
#n\a\a.T;match=1;prestrip=2;
```

where #n is the account prefix (#1 for the first account in the list (proxy0), #2 for the second account (proxy1), and so on).

If the input is the account prefix and the number, then the Account for this dial plan is selected. The account prefixed is stripped from the number before the call is placed.

If all Accounts use this dial plan, then the behavior is as follows: if the input includes the account, then that account is used. In other words, you can force selection of a specific account by including the account prefix. If the input does not include #n, then the default account is used.

Do You Need to Read this Information?

You do not have to read this dial plan information if the default dial plan behavior (above) is acceptable.

If you want to be able to place calls on a specific account without including the account prefix, then you must create a dial plan for one or more accounts.

A.1 Dial Plan Syntax

In X-Lite Beta, the dial plan establishes the expected patterns of characters for a telephone number or softphone address, and allows for modification (transformation) of input based on the match to a pattern. The dial plan has the following syntax:

```
pattern[|pattern];match=1;<transformation>=<value>;[match=2;  
<transformation>=<value>;]
```

Where:

- Items in [] are optional.
- Pattern: the pattern that will be matched. One or more patterns. Each pattern is separated by a | pipe. The pipe is optional after the last pattern. Each pattern is implicitly numbered, starting from 1.
- Match; Transformation: A pair that identifies the pattern number to compare with the input, and the transformation to perform on the input when a match is obtained. The transformation is optional (meaning that if there is no transformation for a pattern, then the input that matches this pattern is not transformed). One or more pairs.

“match=” is a literal. “n” identifies the pattern. “transformation=” is replaced by a keyword, see below. “value” is replaced by a value.

Spaces are allowed only in the <value> items.

Example

```
\a\a.T|xxxxxxxxxx;match=1;prestrip=2;match=2;pre=8;
```

where:

- \a\a.T is the first pattern.
- xxxxxxxxxxxx; is the second pattern.
- match=1;prestrip=2; is the first match-transformation pair.
- match=2;pre=8; is the second match-transformation pair.

Pattern

Valid Content

The content for a pattern follows the digit map rules of RFC 2705, supplemented by the rules for regular expressions. Where there is an overlap between the digit map and regular expression rules, the digit map rules apply. For this reason, there are some special cases, included in the table below.

The following table describes the most common elements. As mentioned, all regular expression elements are supported.

Element	Origin	Description
0 1 2 3 4 5 6 7 8 9	Literals	Literal digits, used as is.
# * a to z	Literals	Literal characters, used as is. Special cases: <ul style="list-style-type: none"> The literal x character is represented by \x. The literal t character is represented by \t.
x	Digit map rules	Wildcard for any single digit, 0 to 9.
\a	Regular expression rules	Wildcard for any single alphanumeric character.
[digit-digit]	Regular expression rules	A digit within the specified range.
[character-character]	Regular expression rules	A character within the specified range.
[digit1, digit2, digit3]	Regular expression rules	One of the characters in the collection.
.	Digit map rules	Repeat the last element 0 or more times. For example, xxxx. means repeat the last x 0 or more times, which means this pattern matches three or more digits (not four or more digits)! Use of this element results in a pattern with “minimum requirements”.
T	Digit map rules	A timeout period will take place before automatic dialing starts. The T timer forces X-Lite Beta to wait after a match is made. This timer should always be included in these situations: <ul style="list-style-type: none"> Any pattern that uses the . (dot). For example, if the pattern is xxxx. then adding a timer lets you type three or more digits. If there is no timer, then as soon as you type three digits, X-Lite Beta makes the match as soon as you type three digits. Any dial plan that has two patterns that are similar in elements but different in length. For example, if one pattern is xxx and the other pattern is xxxxxx, then adding the timer lets you continue typing past three digits, in order to get a match on the second pattern. <p>In this situation, the T timer should be included in the shorter pattern.</p>

Timers

There are two timers:

- T timer is 4 seconds.
- The long timer is 20 seconds.

These timers are used in input comparison, as described in “How the Input Is Processed” on page 54.

Transformation Keywords

Keyword	Description
prestrip	Strip the first n characters from the input before placing the call.
poststrip	Remove n number of characters from the end of the input before placing the call.
pre	Add the specified account prefix to the input before placing the call.
post	Attach the specified postfix to the input before placing the call.
replace	Replaces the input with the specified string before placing the call.

Order of Transformations

These transformations are always performed in the following order (the order in which the transformations are entered in the dial plan is not significant):

prestrip > poststrip > pre > post > replace

A.2 How the Input Is Processed

Comparing Input to the Dial Plan Patterns

The input is compared to each dial plan in turn, starting with the first listed account. The process is slightly different depending on how the call is placed:

- If the input was dragged or selected, then the entire input is compared to each dial plan. If a complete match is found, then that account is selected and the associated transformation is performed. If no match is found, the default account is selected and no transformation is performed.
- If you are typing the input, the digits are compared one by one as they are entered. The comparison will result in one of the types of matches described in the table below.

It is possible for the same input to get matched to different dial plans depending on whether the input is entered on the fly or dragged. It is important to keep this in mind when designing dial plan patterns.

Results of the Comparison

Type of Match	Conditions	Result if You Press Enter or Dial	Result if You Stop Typing
Partial match	The characters typed so far follow the pattern but there are not yet enough characters for a pending or complete match.	The default account is selected. No transformation is performed.	If you stop typing for the long timer length (20 seconds), then the default account is selected. No transformation is performed on the characters typed so far.

Type of Match	Conditions	Result if You Press Enter or Dial	Result if You Stop Typing
Pending match	<ul style="list-style-type: none"> • The pattern has no . (dot) but does have the T timer. There is a perfect match. • The pattern has a . (dot) and the T timer. The minimum requirements are met. 	This pattern's account is selected and the transformation is performed.	If the T timer expires, this pattern's account is selected and the transformation is performed.
Complete match	<ul style="list-style-type: none"> • The pattern has no . (dot) and no T timer. There is a perfect match. • The pattern has a . (dot) but does not have the T timer. The minimum requirements are met. 	This pattern's account is selected and the associated transformation is performed.	This pattern's account is selected and the associated transformation is performed.
No match	The characters typed do not match the patterns for any dial plan.	The default account is selected and no transformation is performed.	Nothing happens even after the T timer and long timer have expired.

A.3 Examples

Example 1

```
\a\a.T|xxxxxxx.T;match=2;pre="9"
```

This simple example shows how to differentiate between a PSTN number and a softphone address, and how to add a “9” dialing prefix only to the PSTN number.

Example 2

```
3xxT|1xxxxxxxxx|[2-9]xxxxxxxxx|+x.T;match=2;pre="9";
match=3;pre="91";match=4;prestrip=1;pre="9011"
```

3xxT	The first pattern is any three-digit number beginning with 3. No transformation. The assumption is that this is an internal extension. The timer forces X-Lite Beta to wait after detecting a three-digit number beginning with 3, in case you are actually dialing a local call starting with 3.
1xxxxxxxxx	The second pattern is any eleven-digit number beginning with 1. Prefix with 9 and dial as is. The assumption is that this is a long-distance PSTN call within North America (within North America, all long-distance calls start with 1).
[2-9]xxxxxxxxx	The third pattern is any ten-digit number beginning with a number other than 1. The assumption is that this is a local PSTN call within a ten-digit dialing zone.
+x.T;	The fourth pattern is a number of any length that begins with +, to indicate an international PSTN call from North America. Delete the +, prefix with 9011 (011 is the number to access an international line from North America).
match=2;pre="9";	For the second pattern, prefix 9 to access an outside line.
match=3;pre="91";	For the third pattern, prefix 9 and 1 to access an outside line and enter the long-distance code.
match=4;prestrip=1;pre="9011"	For the fourth pattern, remove the + and prefix 9011 to access an outside line and enter the international code.

Example 3

```
#1xxxxxxxxT|#19xxxxxxxx|xxxxxxxT|9xxxxxxx|;match=1;prestrip=2;pre=9;match=2;
prestrip=2;match=3;pre=9;
```

#1xxxxxxxxT	The pattern is an account prefix followed by seven digits. The timer forces X-Lite Beta to wait to allow a match to the second pattern. The #1 is stripped off and 9 is prepended to access an outside line.
#19xxxxxxxx	The pattern is an account prefix followed by a 9 and seven digits. The #1 is stripped off.
xxxxxxxT	The pattern is seven digits. The timer forces X-Lite Beta to wait to allow matching to the fourth pattern. 9 is prepended to access an outside line.
9xxxxxxx	The pattern is a 9 and seven digits. The input is not transformed.

This example assumes that the dial plan belongs to the first account.

The dial plan is slightly trivial, because it does not cover all the situations that a dial plan should be designed for (local calls, long-distance calls, international calls, and so on for the locale).

However, the example does illustrate two ideas:

- Handling of the account prefix (#1), if you are upgrading from Bria 1.1 and are accustomed to entering the account number.
Use of # to identify the account is now deprecated. The dial plan should be capable of determining the account to use for this number. However, since users may still be in the habit of entering the account prefix, you may want to include this pattern to handle such a scenario.
- Distinguishing between a local seven-digit call in which 9 is not dialed (to access an outside line) and one in which 9 is dialed to access an outside line.

B Location of Files

System Files

System files get copied to the installation directory specified when installing X-Lite Beta.

The default installation directory on Windows XP is:

```
C:\Program Files\CounterPath Corporation\
```

The default installation directory on Windows Vista is:

```
C:\Program Files (x86)\CounterPath\X-Lite Beta\
```

Data Files

Data files are saved in the Counterpath folder in the local settings location for application data, as defined in Windows.

In Windows XP, this location is typically:

```
C:\Documents and Settings\\Local Settings\Application Data\CounterPath Corporation\X-Lite Beta
```

In Windows Vista, this location is typically:

```
C:\Users\\AppData\Local\CounterPath Corporation\X-Lite Beta
```

C Glossary

AEC	Acoustic echo cancellation. Processing of the audio signal to reduce the echo effect that can arise with a speakerphone or that can arise if the sound from the speakerphone or headphone leaks into the microphone.
AGC	Automatic gain control. Processing of the audio to adjust the microphone volume level so that the other party does not hear the distortion that might be caused by too high a microphone input or too low volume (due to too low input level).
Broadband	Broad or wide bandwidth. In data transmission, the wider the band, the more data it is possible to transmit in a given time span. A cable, DSL and ADSL connection to the network provide broadband for data transmission. A dialup or ISDN connection typically provide a narrow bandwidth for data transmission.
Codec	The format by which audio streams are compressed for transmission over networks.
Default account	The SIP account that will be used when placing an outgoing call, if X-Lite Beta does not determine that another account should be used. X-Lite Beta uses the dial plan to determine the account to use.
Dial plan	The rules that X-Lite Beta follows in order to interpret the softphone address or phone number that the user has entered and to modify the number or address, as required, to ensure that the call will be placed successfully.
DTMF	Dual-tone multi frequency. DTMF is the system that is used in interactive voice-response menu systems such as the menu system for accessing voicemail messages. The DTMF system allows the user to interact with the menu by pressing keys on a dialpad or keyboard.
IM	Instant Messaging. A technology that lets users send text message and files for near instantaneous delivery and display on each others' computers.
IP	Internet Protocol. A data-oriented protocol used for communicating data across a network. IP is the most common protocol used on the internet.
IP address	A unique number that devices use in order to identify and communicate with each other on a computer network using the IP standard.
Media	In a VoIP phone call, the audio portion of the information in a call. Compare to "Signaling".
MWI	Message Waiting Indicator. An indicator that there is a voicemail message for the owner of an account.
Narrowband	In data transmission, the wider the band, the more data it is possible to transmit in a given time span. A cable, DSL and ADSL connection to the network provide broadband for data transmission. A dialup or ISDN connection typically provide a narrow bandwidth for data transmission.
Presence	An instant messaging feature that allows users to share information about their availability, mood, location and so on.
Proxy	See SIP account.
PSTN	Public Switch Telephone Network. The traditional land-line phone network.
RFC	Request for Comment. A document that describes an aspect of an internet technology. An RFC may be a proposed, draft or full internet standard.
RTP	Real-time Transport Protocol. A protocol for delivering the media portion of a data transmission over an IP network. SRTP is another media protocol.
Signaling	In a VoIP phone call, the information in a call that deals with establishing and controlling the connection, and managing the network. The non-signaling portion of

	the call is the Media.
SIMPLE protocol	Session Initiation Protocol for Instant Messaging and Presence Leveraging Extensions. The instant messaging (IM) protocol followed by X-Lite Beta. It encapsulate the rules for exchanging instant messages.
SIP	Session Initiation Protocol. The signaling protocol followed by X-Lite Beta for handling phone calls.
SIP account	An account that provides the user the ability to make VoIP phone calls. The account encapsulates the rules and functions the user can access.
softphone address	The address used to connect to a SIP endpoint. In other words, the “phone number” used in a VoIP phone call. For example, sip:joseph@domainA.com.
SRTP	Secure Real-time Transport Protocol. A protocol for delivering the media portion of a data transmission over an IP network. SRTP is a secure protocol, which means that the media is encrypted. RTP is another media protocol.
TCP	Transmission Control Protocol. A transport protocol for delivering data over an IP network. Other transport protocols are TLS and UDP.
UDP	User Datagram Protocol. A transport protocol for delivering data over an IP network. Another transport protocol is TCP.
URI	Uniform Resource Identifier. A name or address that identifies a location on the world wide web. A softphone address is a type of URI.
URL	Uniform Resource Locator. A URI that both identifies a name or address and indicates how to locate it.
USB device	Universal Serial Bus device. A device that follows a specific communications standard. A headset may be a “USB type” of headset.
VAD	Voice Activity Detection. A technology that detects if audio is a human voice or background noise. X-Lite Beta includes a feature (Preserve bandwidth on the Network panel of the Preferences window) that controls whether audio is transmitted when VAD determines that no one is actually speaking.
VoIP	Voice over Internet Protocol. A variation of IP used for sending voice data over the internet, in other words, used for making phone calls over the internet.
WAV	Or WAVE. A file format standard for storing audio on PCs.