



# CounterPath Softphone SDK

## Comparison to CounterPath COM SDK

### What Went Where

This table lists the interfaces from the COM SDK and shows where the corresponding functionality is found in the CounterPath Softphone SDK version 1.5.

COM SDK	CounterPath Softphone SDK												
	AudioHandler	SipAccountHandler	SipConversationHandler	SipEventSubscriptionHandler	SipAccountSettings	SipAccountManager	AudioCodecInf	AudioCodecListUpdatedEvent	SipConversationManager	AudioHandler	AudioDeviceInfo	Audio	Phone
_IPhoneEvents	✓	✓	✓	✓									
IAccount					✓	✓							
<b>IAccountList</b>													
IAudioCodec							✓						
IAudioCodecList								✓					
ICall				✓					✓				
<b>ICallList</b>													
IDevice										✓	✓		
IDeviceConfiguration											✓		
IDeviceList											✓		
ILicenseStateEvent	✓												
IMicrophone												✓	
IPhone						✓				✓	✓	✓	✓
<b>ISettings</b>													
ISipSignal													
ISpeaker												✓	
ITransferRequest			✓										

red=not supported

## Detail Comparison

This table lists the key functionality from the COM SDK and the corresponding class and method in the CounterPath Softphone SDK.

	COM SDK		CounterPath Softphone SDK		
Type	Class (all in CounterPathSDK namespace)	Method/Enum	Class	Method/Enum	Comment
Enum	ECallStatus		Various enums, generally one enum per callback		Unlike the Java API, which had one mega enum used by many callbacks.
Enum	EDeviceType	EDT_AudioOut	An equivalent enum exists, used in AudioDeviceInfo		
Enum	EDeviceType	EDT_AudioIn	An equivalent enum exists, used in AudioDeviceInfo		
Enum	EDTMFTone	EDTMFTonen where n is 0 to 9	SipConversationManager	startDtmfTone	accepts numeric tone IDs as defined by <a href="http://tools.ietf.org/html/rfc4733#section-3.2">http://tools.ietf.org/html/rfc4733#section-3.2</a>
Enum	ELicenseState.		SipAccountHandler	onLicensingError	
Enum	ELogLevel	ELL_MaxDetails	An equivalent enum exists, used in Phone	setLoggingEnabled	
Interface	_IphoneEvents	OnAutoConfigCompleted			not supported
Interface	_IphoneEvents	OnCategoryRemoved			not supported
Interface	_IphoneEvents	OnCategoryRenamed			not supported
Interface	_IphoneEvents	OnDialingTimedOut			not supported
Interface	_IphoneEvents	OnLicenseState			not supported
Interface	_IphoneEvents	OnMicrophoneLevelChanged	AudioHandler	onAudioDeviceLevelChange	
Interface	_IphoneEvents	OnNetworkStatus	NetworkChangeHandler	onNetworkChange	
Interface	_IphoneEvents	OnPhoneStarted			not supported
Interface	_IphoneEvents	OnReadyToDial			not supported
Interface	_IphoneEvents	OnSpeakerLevelChanged	AudioHandler	onAudioDeviceLevelChange	
Interface	_IphoneEvents	OnMicrophoneVolumeChange	AudioHandler	onAudioDeviceVolume	
Interface	_IphoneEvents	OnSpeakerVolumeChange	AudioHandler	onAudioDeviceVolume	
Interface	_IphoneEvents	OnAccountStatus	SipAccountHandler	onAccountStatusChanged	
Interface	_IphoneEvents	OnCallDisconnected	SipConversationHandler	onConversationEnded	

Type	COM SDK		CounterPath Softphone SDK		
	Class (all in CounterPathSDK namespace)	Method/Enum	Class	Method/Enum	Comment
Interface	_IPhoneEvents	OnCallStatus	SipConversationHandler	onConversationStateChanged	
Interface	_IPhoneEvents	OnIncomingCall	SipConversationHandler	onNewConversation	
Interface	_IPhoneEvents	OnRequestToChangeCallOptions	SipConversationHandler	onConversationStateChangeRequest , onConversationMediaChangeRequest	
Interface	_IPhoneEvents	OnTransferAccepted	SipConversationHandler	onTransferProgress	
Interface	_IPhoneEvents	OnTransferRequest	SipConversationHandler	onIncomingTransferRequest, onTransferProgress	
Interface	_IPhoneEvents	OnMessageWaitingSubscriptionError	SipEventSubscriptionHandler	onSubscriptionEnded, onError	
Interface	_IPhoneEvents	CounterPathSDK._IPhoneEvents_If	Various		Split into several event handlers
Interface	IAccount	Release	None		Not required
Interface	IAccount	Apply	SipAccountManager	create	SipAccountsSettings provided in SipAccountManager.create
Interface	IAccount	SetEnabled	SipAccountManager	enable / disable	
Interface	IAccount	SetDisplayName	SipAccountSettings		
Interface	IAccount	SetDomain	SipAccountSettings		
Interface	IAccount	SetPassword	SipAccountSettings		
Interface	IAccount	SetUsername	SipAccountSettings		
Interface	IAccountList;	GetCount,Add,Release,GetItem			not supported . With the new CounterPath Softphone SDK, the application is responsible for managing multiple accounts.
Interface	IAudioCodec	GetName	AudioCodecInfo		
Interface	IAudioCodecList	GetCount	AudioCodecInfo		
Interface	ICall	GetLocalHold	Available from ConversationMediaChangedEvent in SipConversationHandler		

Type	COM SDK		CounterPath Softphone SDK		
	Class (all in CounterPathSDK namespace)	Method/Enum	Class	Method/Enum	Comment
Interface	ICall	GetRemoteHold	Available from ConversationMediaChangedEvent in SipConversationHandler		
Interface	ICall	GetRemoteAddress	Available from NewConversationEvent in SipConversationHandler		
Interface	ICall	Dial	SipConversationManager	createConversation, addParticipant, start	
Interface	ICall	Hangup	SipConversationManager	end	
Interface	ICall	Hold	SipConversationManager		
Interface	ICall	ifPtr	SipConversationManager		
Interface	ICall	Release	SipConversationManager	end	
Interface	ICall	SendRingback	SipConversationManager	sendRingingResponse	
Interface	ICallList;	GetCount, GetItem, Delete, Release			not supported. With the new SDK, the application is responsible for keeping track of multiple calls.
Interface	IDevice	Release	AudioDeviceInfo and VideoDevice Info		
Interface	IDevice	GetName	Available in AudioDeviceInfo from AudioHandler	onAudioDeviceListUpdated	
Interface	IDevice	GetType	Available in AudioDeviceInfo from AudioHandler	onAudioDeviceListUpdated	
Interface	IDeviceConfiguration	Release	None		Not required
Interface	IDeviceConfiguration	GetHeadsetSpeaker	queryDeviceList		
Interface	IDeviceConfiguration	GetSystemDevices	queryDeviceList		
Interface	IDeviceConfiguration	GetHeadsetMicrophone	queryDeviceList()=> AudioHandler	onAudioDeviceListUpdated	
Interface	IDeviceConfiguration	SetHeadsetMicrophone	setCaptureDevice		
Interface	IDeviceConfiguration	SetHeadsetSpeaker	setRenderDevice		
Interface	IDeviceList	GetCount	AudioDeviceListUpdatedEvent	deviceInfo (std::vector)	

Type	COM SDK		CounterPath Softphone SDK		
	Class (all in CounterPathSDK namespace)	Method/Enum	Class	Method/Enum	Comment
Interface	IDeviceList	GetItem	AudioDeviceListUpdatedEvent	deviceInfo (std::vector)	
Interface	ILicenseStateEvent	GetLicenseState	SipAccountHandler	onLicensingError	
Interface	IMicrophone	SetVolume	Audio	setMicVolume	
Interface	IMicrophone	Release	None		Not required
Interface	IPhone	AddRef			not supported
Interface	IPhone	GetAccounts			not supported
Interface	IPhone	GetLogger			not supported
Interface	IPhone	GetSettings			not supported
Interface	IPhone	SetLicenseDirectory			not supported
Interface	IPhone	Start			not supported
Interface	IPhone	Stop			not supported
Interface	IPhone	EnableAudioCodec	Audio	setCodecEnabled	
Interface	IPhone	GetDeviceConfiguration	Audio	queryDeviceList, queryDeviceVolume	
Interface	IPhone	GetMicrophone	Audio	queryDeviceList	
Interface	IPhone	GetSpeaker	Audio	queryDeviceList	
Interface	IPhone	GetAudioCodecs	AudioHandler	onAudioCodecListUpdated	
Interface	IPhone	Initialize	Phone	initialize	
Interface	IPhone	StartDTMF	SipConversationManager	startDtmfTone	
Interface	IPhone	StopDTMF	SipConversationManager	stopDtmfTone	
Interface	ISettings	Apply			not supported
Interface	ISettings	SetValue			not supported
Interface	ISettings	SetValueEx			not supported

	COM SDK		CounterPath Softphone SDK		
Type	Class (all in CounterPathSDK namespace)	Method/Enum	Class	Method/Enum	Comment
Interface	ISipSignal	GetResponseCode			Response code attribute is available on event types for which it is meaningful. SipAccountStatusChangedEvent::signalingStatusCode, ConversationEndedEvent::sipResponseCode, etc.
Interface	ISipSignal	GetSipMessage	NewConversationEvent, ConversationEndedEvent, SipAccountStatusChangedEvent, etc.		SIP messages are handled by the SDK and available to the application as parsed events. Raw message access is not available.
Interface	ISpeaker	SetVolume	Audio	setSpeakerVolume	
Interface	ISpeaker	Release	None		Not required
Interface	ITransferRequest		SipConversationHandler	onIncomingTransferRequest	