

Primus UC Communicator for iPhone

User Guide

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Document Version 1



Table of Contents

1	About Communicator for iPhone	5
2	Get Started	6
2.1	Installation	6
2.2	! Sign In	6
3	Main Tabs	7
4	Contacts	8
4.1	Contact Card	8
4.2	Add Contacts	
4.3	Edit Contacts	9
4.4	Filters	
4.5	Sort and Display Order	9
5	Availability	10
6	Instant Messaging	11
6.1	Chat Tab	11
6.2	Chat	11
6.3	Group Chat	12
7	Audio and Video Calls	13
7.1	Dial Pad Tab	13
	7.1.1 VoIP Calling Mode	13
7.2	Make Audio or Video Calls	14
7.3	Answer Call	14
7.4		
	7.4.1 Answer Incoming VoIP Call on Locked Screen	
	7.4.2 Answer Incoming VoIP Call on Unlocked Screen	
	7.4.3 Receive Second Incoming Call (Call Waiting)	
	7.4.4 Integration with Native Contacts and Call History	
7.5		
7.6	3-1-	
7.7 7.8	3	
7.9	•	
7.1		
7.1	-	
7.12		
7.13		
7.1		
7.1		
7.10	6 Mid-Call Controls for Circuit-switched Business Calls	18
7.1	7 Swipe Between Chat and Audio/Video Communication Views	19



primus

7.18	Sea	mless Call Handover for VoIP Calls	. 19	
8	Call F	listory	. 20	
9	Side I	Navigation	. 21	
9.1	Му	Status	. 21	
	9.1.1	Availability Rules	. 21	
9.2	Call	Settings	. 22	
	9.2.1	Call Forwarding	. 22	
	9.2.2	Do Not Disturb	. 22	
	9.2.3	Primus Anywhere	. 22	
	9.2.4	Remote Office	. 23	
9.3 Preferences				
	9.3.1	Language Support	. 23	
	9.3.2	Troubleshooting	. 23	
	9.3.3	Remember Password		
9.4	Abo	ut	. 24	
9.5		Page		
9.6	_	n Out		
10	My R	oom	. 25	
10.1	Gue	st Client	. 25	
11	Comr	nunicator and iPhone Settings	. 26	
12	Searc	h	. 27	
13	Push	Notifications	. 28	
13.1	Pus	h Notifications for Incoming Calls	. 28	
13.2	2 Pus	h Notifications for Chat Messages	. 28	
14	Multi-	Device Support	. 29	
14.1	Mes	sage History and Message Read Status Synchronization	. 29	
15		Features		
15.1	l Ver	sion Control	. 30	
		acy Management		
15.3		walls and NATs		
15.4	l Sup	port for iPhone X	. 30	
15.5	Priv	acy Policy	. 30	
		s and Abbreviations		
App	Appendix A: Third-Party Software3			

primus

List of Figures

Figure 1	Main View	7
	Chat Tab	
	Dial Pad Tab	
Figure 4	In Call Screen	16
Figure 5	Call History	20
Figure 6	Side Navigation	21



About Communicator for iPhone 1

Communicator for iPhone provides the following communication features:

- Instant Messaging and Presence (IM&P)
- Voice Calling (VoIP)
- Voice Calling (Mobile)
- Video Calling
- Primus HPBX Call Settings





2 **Get Started**

This section contains the essential information for getting started with Communicator.

Installation 2.1

The iPhone client can be downloaded from Apple App Store.

2.2 Sign In

When you first launch the application, you are prompted to sign in.

- 1) Enter your Hosted PBX user name and password (the same username and password used to log into the online HPBX portal at https://voice.primus.ca).
- 2) Select whether you would like Communicator to remember your password.
- 3) Select whether you would like Communicator to sign you in automatically on subsequent launches.
- 4) Tap Sign In.

NOTE: If you choose automatic sign in, you are automatically signed in and taken to the Contacts list upon subsequent Communicator launches. Otherwise, you are presented with the Sign In screen.

The client also has a link for Forgot Password on the login dialog box which links to the online HPBX portal at https://voice.primus.ca.



3 **Main Tabs**

When you start Communicator for the first time, the Contacts list is empty. Use the search field to find people and add them to your Contacts list. Contacts can also be added manually by tapping the Add button.





Figure 1 Main View

The main view contains a number of tabs that present information about the contacts and communications options available as follows:

- Contacts
- Chat
- Call
- History
- My Room

Contacts

The Contacts list in the Contacts tab can contain different types of contacts as follows:

- Presence-enabled contacts
- Non-presence-enabled contacts

Any contact can be marked as a favorite, when then appears at the top of the Contacts list in the Favorites section.

Presence-enabled contacts are other Communicator users. Non-presence-enabled contacts can be phone or conference numbers. These are also stored on the server and available on all client instances of the user.

The iPhone client shows contact groups created from the desktop. Contact groups cannot be created or edited from the iPhone client.

The Contacts tab contains the following:

- Communicator Contacts
 - ΑII
 - Online
- **Contact Directories**
 - Local Address Book
 - Directory

Local Address Book provides contacts from the local contacts. Directory provides contacts from the company directory.

Contact Card 4.1

The contact card displays information about a contact based on the contact type. This includes Communicator contacts, Local Address Book contacts, and contacts from directory search results.

You can initiate a call or chat session directly from the contact card. This includes joining other contact's My Room or dialing a My Room audio bridge from a directory contact search result.

If the contact has an associated email address, then the application supports sending an email to the contact by launching the native email client on the mobile device.

4.2 **Add Contacts**

When you sign in for the first time, there are no contacts on your Contacts list. Add a new presence-enable contact at any time by selecting the option Add Contact from the plus icon in the navigation bar. Another way to add new contacts is to use the directory search option from the Contacts tab.

In the *Add Contact* screen, enter the contact's information and then tap **Done**. By default, your presence information is always shared with with a new presence-enabled contact.

If you receive a contact request invitation, you can ignore or accept it. If you ignore the contact request, you can always share your presence information later by selecting Subscribe from the contact card. Note that the contact must accept your subscription request for you to establish the presence relationship successfully.





Add a conference number by selecting the option Add Conference from the same plus icon in the navigation bar by typing a conference number. You can also add a conference number from directory search. A conference contact is a special contact used for conference bridges to avoid having to remember a PIN code and a conference number, for example, for a recurring conference.

Add a local contact by selecting the option Add Local Contact from the plus icon in the navigation bar. The option Add Local Contact opens the native Address Book for adding a new contact from the local phone book.

Edit Contacts 4.3

Tap a contact entry from the Contacts list to open a contact card. This is the same for presence-enabled and non-presence-enabled contacts.

- Edit opens the Contact Information dialog box where you can add, edit, or remove information. This works for both presence and non-presence-enabled contacts.
- Unsubscribe removes the presence relationship between you and that contact. This means you do not see the contact's presence information and your contact does not see yours. Select Subscribe to re-establish the presence relationship. An unsubscribed contact remains on your Contacts list and is always shown as "offline".
- Remove contact deletes the contact from your Contacts list.

4.4 **Filters**

There are four contact filters available from the Contacts tab:

- All Shows all presence-enabled and non-presence-enabled contacts.
- Online Shows only the presence-enabled contacts that are currently online.
- Local Address Book Shows the contacts from your local phone book.
- *Directory* Shows the contacts from a company directory (which requires a search).

4.5 Sort and Display Order

The sort and display order for contacts is based on phone settings: Settings \rightarrow Mail, Contacts, Calendars → Contacts for iOS 9 and lower, or Settings → Contacts for iOS 10.

- Display order display First name or Last name first
- Sort order sort by First name or Last name
- Short name format of the name to be used in chat lists

NOTE 1: Short names are not supported on iOS 8. On iOS 8, the application will always use the full names for display in such lists.

Local Contacts

Local contacts are ordered in groups by letter, based on the first letter of their display name. There is no further ordering within the group.

All contacts whose display name starts with non-Latin characters are put in the # group.

The display name of a local contact is taken from first name, middle name, and last name. If names are missing, the display name is taken from the JID field.

If all of the previous items are missing, the phone number is used for the display name.





5 Availability

For each contact you have subscribed to, you can see their availability. Similarly, your contacts can see your availability on their Contacts list.

Availability, also referred to as presence status, means that your friends are able to see whether you are available, for example, "I'm available" or "I'm busy".

lcon	What it means
available	The green <i>availability</i> icon indicates that the user is online and is ready for communication.
mobile	The green <i>availability</i> icon indicates that the user is online on the Communicator mobile client and is ready for communication. The icon is accompanied by the text "mobile".
away	The yellow availability icon indicates that the user is online on their Communicator client but has been idle or away from their computer for more than 10 minutes.
mobile	The yellow availability icon indicates that the user is online on their Communicator mobile client but has been idle or away from their computer for more than 10 minutes.
offline	The grey availability icon indicates that the user is offline in a call and the only available contact method is calling or leaving a chat message.
call	The grey availability icon indicates that the user is offline and the only available contact method is calling or leaving a chat message.
pending	The question mark indicates that a subscription is pending and the contact has not yet approved sharing their availability.
/// busy	The red <i>availability</i> icon indicates that the user is busy and does not want to be disturbed.
///call	This icon indicates that the contact is busy due to a call. This is an automated availability status.
///meeting	This icon indicates that the contact is busy due to a meeting. This is an automated <i>availability</i> status. The Busy – In Call status overrides the Busy – In Meeting status so this icon is only seen when there is a meeting but no call.

You can manually set your own availability by tapping on the availability icon from the status bar in all tab views. The availability icon opens the My status screen where you can change your avatar, personal message, and availability status.

Your avatar is the picture that represents you in your friends' Contacts lists and in chat screens. Tapping on an avatar opens a dialog with options to select an existing image, to take a new one with your phone camera, or to clear your avatar.

You can enter a status message in the area next to the avatar. This status text is shown in your friends' Contacts lists.

If you see the error message, "Chat Unavailable", under any tab, it means that your device's connectivity to the Primus UC system has been lost for chat and availability; however, you can still make calls. This is typically temporary and caused by a brief network disruption or change in connection to another wireless access point.

The availability update is only triggered by appointments and meetings that are either accepted by the user or made by them. All-day meetings do not trigger an availability change to Busy - In Meeting.

6 Instant Messaging

6.1 **Chat Tab**



Chat shows the list of recent chats since the last login. If User A chats with User B multiple times, their discussions appear as one item in the list.

Tapping the name opens the chat view (IM view) where new messages can be typed. Old messages are also shown.

New incoming messages are indicated with a notification badge to the right of the name. The icon remains next to the name until the message is read.

Chats are listed so that the newest ones are always at the top. Chats are not in alphabetical order. Instead, they are listed with the most recent first.

Tapping the menu button in the navigation bar displays the Start Group Chat options.

Figure 2 Chat Tab

6.2 Chat

Start a chat using one of the following methods:

- From the Contacts list, tap a contact to open the contact card. From the contact card, choose the chat bubble icon to start a chat.
- In the Chat History list, tap a Chat History entry to start a chat.

When you initiate a chat, the *Chat* screen opens. Chatting with a contact is possible only when you are both online. If your contact initiates a chat, you see a notification badge on the Chat tab and the entry appears on the top of Chat History list.

When the chat opens, the name of the recipient is on the top bar and there is availability icon flag before the name. The recipient messages are presented in the orange background and the user is presented in white background.

A smiley can be added to a message by typing the corresponding character code or by selecting a smiley icon. The smiley is displayed with its character code in the input text are and graphically in the chat area and when displayed to the remote party.

The text input field in Chat uses autocorrect, auto-cap, and spell check based on system settings. Use the system settings to enable or disable these features.

Upon Clear History, the Chat History is removed from the view, but the chat view remains open in case you want to continue chatting. If you navigate back to the chat list, then this specific chat entry is removed from the list because there is no Chat History associated



6.3 **Group Chat**

Start a group chat using one of the following methods:

- In single chat session, tap the add participant icon to escalate from a single to a group
- From the Chat tab, tap on the menu icon to select the "start group chat" option.
- In the Chat History list, tap a group communication entry to start a group chat.

When you initiate a group chat, the Chat screen opens. More people can be added later to the chat using the add participant icon. Anyone in the group chat can add participants. However, removing participants is currently not supported.

A group chat works the same way as a one-on-one chat. All messages from anyone are sent to everyone else. All contacts need to be online to be able to participate in a group chat. You cannot invite an offline contact.

A group Chat History is saved and is available to view later in the *Chat* tab.

You can leave a group chat by selecting the Leave chat option. The chat is marked as "offline" and you will no longer receive messages from the chat. When tapping on the "offline" chat, you re-join the room and start receiving messages. However, you will not receive the messages that were sent in the chat while you were outside of the room.

The Clear History menu item works the same way as the corresponding option in a oneon-one chat and removes the local history.

The View Participants button opens a dialog that shows the list of participants in the group chat.

Deleting a chat room is not supported.

Audio and Video Calls

7.1 **Dial Pad Tab**



The Dial Pad tab displays a Dial Pad and a text field used to enter numbers. The Dial Pad is one of the options used to make audio or video calls. There are three buttons below the Dial Pad: Call, Video call, and Dial Pad menu that are configurable by the service provider. The top text field also has a delete button that, when pressed, deletes one character at a time.

A badge notification appears on the Dial Pad box. A long press on the "1" digit connects you to the voice mail box. When there is no voice mail in your voice mail box, no notification badge is shown.

The Dial Pad menu can contain three options: VoIP Mode, Pull Call, and Retrieve Call.

Figure 3 Dial Pad Tab

7.1.1 **VoIP Calling Mode**

Communicator Mobile supports an option that allows you to switch easily between VoIP and Mobile calling modes.

- VoIP calls use WiFi or the carrier data network.
- Mobile calls use the carrier circuit-switched network. Mobile calls can use the device's dialer (which will show the user's mobile number in the caller ID), or leverage Primus UC's Call Through feature to present the business identity of the user (for more information, see section 7.8 Business Line Call-Through).

Users can select which dialing service to use in the side navigation menu by selecting Call Settings and then Dialing Service and choosing one of the following options:

- Internet Call (VoIP)
 - Outgoing calls use VoIP over WiFi or data network.
 - The business identity of the user will be presented to the remote party
- Call Through
 - Outgoing calls use the mobile circuit-switched network.
 - Calls are placed via Call Through number that then connects the call to the remote party (mobile usage and/or long distance charges may apply depending on the device's mobile billing plan)
 - The business identity of the user will be presented to the remote party



This Device

- Outgoing calls use the mobile circuit-switched network.
- Calls are placed to the remote party directly via the device's mobile dialer (mobile usage and/or long distance charges may apply depending on the device's mobile billing plan)
- The device's mobile number will be presented to the remote party

Always Ask

User will be prompted which method to use for each outbound call

VoIP calls over Wi-Fi or the carrier data network (3G, 4G, or Long Term Evolution [LTE]) are dependent on the quality of the network. Calls made while connected to the carrier data network may incur additional carrier data charges.

7.2 Make Audio or Video Calls

Make an audio or video call using one of the following methods:

- Choose a contact from Contact List and tap on the headset icon \infty for an audio call or the video icon for a video call.
- From search results, open a contact card and tap on the headset icon audio call or the video icon to perform a video call.
- Open the Dial Pad, enter a phone number, and tap the Call or Video button.
- On the Call History list, tap a call entry.
- On the *Chat* screen, tap the headset icon for an audio call or the video icon for a video call.

Answer Call 7.3

An incoming call is indicated by a ringtone. There are two options on the incoming call screen: Answer and Decline. If you decline the call, it may cause the line to sound busy at the caller's end or direct them to voicemail.

If a user is in the middle of a VoIP call and receives an incoming cellular call, the VoIP call continues while the phone is alerting. Once the cellular call is answered, the VoIP call is put on hold.

If the iOS device (iPhone or iPad) is locked and there is an incoming VoIP call, a notification is displayed to you on the locked screen, accompanied with an alerting sound and vibration.

If the device is in silent mode, the Communicator notification is accompanied by multiple vibrations. Vibrations are played until the call is answered locally, answered on another location, or redirected to voice mail or another number, or after a predefined timeout.

The incoming call ring volume when the application is in background is controlled by the Ringer volume when the phone is unlocked. The volume of the incoming call ring when the application is in foreground is controlled only during active alerting of an incoming call.





7.4 **CallKit**

Starting with iOS 10, Communicator supports integration with the iPhone UI using the CallKit Framework. This integration enables the functionality described in the following subsections.

7.4.1 **Answer Incoming VolP Call on Locked Screen**

When an incoming VoIP call is received and the device is locked, iOS shows the native incoming call screen with the caller ID, avatar, and the "Communicator Audio" label.

Sliding the device lock establishes the call with no additional interaction required. You are not required to enter the device unlock code if such is set.

You can perform basic mid-call control functions from the native screen. For advanced mid-call control functionality, you must activate the application by using the application button on the native screen. Entering the device lock code, if set, is required at that point.

Incoming calls are always accepted as audio. You have the option on the native In Call screen to add video. Upon adding video from the native incoming screen and unlocking the phone, the application comes to foreground with the video call enabled.

If you do not want to accept the call, you can tap the power button once to silence the call, and twice to reject it.

7.4.2 Answer Incoming VoIP Call on Unlocked Screen

When an incoming VoIP call is received while the device is unlocked and the application is either in foreground or background, you are notified with the iOS native incoming call screen, which shows the caller ID, avatar, and the "Communicator Audio" label.

You can answer the call using the **Accept** button, which opens the application In Call screen.

7.4.3 Receive Second Incoming Call (Call Waiting)

When an incoming native circuit-switched (CS) call is received during an ongoing VoIP call, you are notified with the iOS native incoming call screen, which shows the caller ID and avatar of the new calling party. You have the choice to hold the current call and answer, or end the current call and answer or decline the new call to voice mail. Upon accepting the new call, the previous call is put on hold. You have the option to swap between the calls or to end any or both of them.

The same behavior is applicable to receiving an incoming VoIP call during a native carrierswitched call, or receiving a second VoIP call.

7.4.4 **Integration with Native Contacts and Call History**

VoIP calls made with Communicator are shown in the native Call History ("Recents"). Selecting such a call entry in the Call History initiates the call with Communicator.

Communicator calls can also be initiated directly from the contact profile of an Address Book entry. Long press on the call or video button in a contact profile opens a list of calling options which includes Communicator.

If the last call to a contact has been handled by Communicator, the call button in the profile changes to "Communicator".



Communicator In Call Actions 7.5



Figure 4 In Call Screen

While on a VoIP call, you can perform the following actions from the In Call screen:

- End a call
- Mute the microphone
- Enable / Disable Speaker*
- Open the key pad
- Adjust the volume
- Place a call on hold
- Make a new call
- Transfer a call Attended
- Transfer a call Unattended
- Make a conference
- Park a call
- Merge two separate calls
- Swap two separate calls
- View participants (on a conference call)
- Transfer a call to circuit-switched call
- Add more participants (conference call only)
- Escalate from an audio to video call
- Downgrade from a video to audio call

7.6 Missed Calls and New Messages

Notifications (for example, for missed calls or new messages) are shown as badges on the tab icons.

The Mobile and Tablet clients also display local visual notification for unanswered calls and new voice mail messages.

The notification for an unanswered call is displayed when there is call delivered to the device, and the application is alerted for the call but the call is not answered by the user. The feature does not provide indication for missed calls on other endpoints.

The notification for new voice mail message is displayed when there is a new voice mail message deposited on the server. The notification is accompanied with audio and vibration.

Message Waiting Indicator and Voice Mail Access 7.7

If you have pending voice mail (VM) messages, then a badge is displayed on the Call tab icon with indicating the number of pending VM messages.

The voice mail is accessible with a long press of the Dial Pad digit "1" (similar to how it is done on a regular mobile keyboard).



^{*} During a video call, the audio output is automatically switched to speaker-only mode.



7.8 **Business Line Call-Through**

Communicator allows you to originate a circuit-switched call using your business line identity. This is done using the Call Through functionality available with Primus UC.

Call Through functionality is available if the Primus Anywhere service is assigned to the user and configured with at least one location. Call Through provides a more natural dialing experience. When a call is placed in this mode, the client communicates transparently with the Primus UC platform to obtain a temporary IP Multimedia Routing Number (IMRN). The client then calls the IMRN and connects the user directly to the destination identifying the call with their business line identity.

Note that Call Through requires "My Phone number" on iOS or "Own phone number" on Android local setting to be set to the phone number of the mobile device. This number must be set and must also match the number configured in Primus Anywhere in order for Call Through to work.

Note that users will see in the phone's native call log all the IMRN numbers with no indication of the actual destination number being called or that this was a call initiated by the application. Users must access the Communicator application Call History to see the actual destination number that was called.

The application provides Mid-Call Control services for business circuit-switched calls. For more information, see section 7.16 Mid-Call Controls for Circuit-switched Business Calls.

7.9 Contact Name Lookup for Incoming Calls and Call Logs

When receiving a call, Communicator searches for the name in the following sources and in the following order: Presence contact name, Enterprise Directories and Local Contact List. If the number matches one of the contacts, the name is shown on the Incoming Call screen.

7.10 Call Waiting

You can have one active call at any one time if you receive a new incoming call and accept it. The existing call is put on hold and you can change between these two calls by using the Hold and Unhold buttons.

7.11 N-Way Calling (Conference)

Communicator Mobile supports conferencing calls. While on a two-way audio or video call, you can add more participants by using the Conference button. It opens the Address Book on the device to search for and select the new participant. Once the conference is established, the participants are shown on the *Device* screen.

The other way to create conference call or to add participants in an existing conference is to make a new second call and select the merge option.

7.12 New Call

The client supports starting a new call while in an ongoing call. The steps are as follows:

- 1) Establish a call with a remote party.
- Initiate second call using the **new call** button.
- 3) Select a contact and then choose a number. After the new call is established, the first call is put on hold. You can also swap the two calls or to merge it in conference.





7.13 Call Transfer

The client supports transferring VoIP calls to another party. Two modes of transfer are supported:

- Attended Transfer Establish a call with a remote party. Select a contact then choose a number. Select the call first option. If the call is successfully established, you can talk with the third party privately before completing the transfer by tapping the Complete button.
- Unattended Transfer Establish a call with a remote party. Select a contact and then choose a number. Select the *Transfer* option and the transfer is completed.

7.14 Call Pull

Call Pull can be used in scenarios where a user has two endpoints, for example, a Primus desk phone and a mobile phone with Communicator. If the user has an active call on the desk phone, this call can transferred seamlessly to the mobile phone via the Call Pull button. Depending on the dialing settings, the call can be pulled as a VoIP or circuitswitched call to the mobile phone. There is no interruption to the voice call.

Call Pull button pulls audio only. Users can pull video calls directly by dialing the feature access code *11 and then selecting the video call button.

NOTE: Call Pull is not possible when there is an ongoing circuit-switched call on the iPhone. This is regardless if the circuit-switched call is mobile (personal) or business (Primus UC).

7.15 Call Park

The Call Park service allows a "parking" user to park a call against a "parked against" extension. The "parked" user is placed on hold until a user retrieves the parked call. If the call is not retrieved within the provisioned recall time, then the parked call is reverted and presented to the "recall" user.

7.16 Mid-Call Controls for Circuit-switched Business Calls

Communicator Mobile provides Mid-Call Control services for business circuit-switched calls that are anchored (controlled) on Primus UC. This functionality is available for:

- Call Through circuit-switched calls initiated from the Communicator client via the native phone dialer.
- Incoming circuit-switch calls delivered to the mobile phone via Primus Anywhere, or Remote Office features.

Supported Mid-Call Control services are:

- Hold / Resume
- Transfer
- Conference (limited to three participants)
- **End Call**

After initiating a Call-Through call or after receiving a business circuit-switched call, the user can return to the main screen and launch Communicator to the foreground. At this point, the application brings a Mid-Call Control screen which can be used to manage the call.





For Call-Through outgoing calls, Communicator for iOS displays a local notification after the remote party accepts the call with information that the user can tap on the notification in order to return to Communicator and control the call.

7.17 Swipe Between Chat and Audio/Video Communication Views

Communicator provides ability to switch between Chat and Audio/Video communications sessions for own My Room, other users' My Room, and two-way chat. The ability to switch between sessions is indicated by the dots at the bottom of the screen. The user can perform a swipe to switch between sessions.

7.18 Seamless Call Handover for VolP Calls

If the data connection drops during an ongoing VoIP call, then the application tries to use anther data connection, if available, or waits for a period of time, (up to one minute) for the data connection to be re-established. At that point, the call is retried on the new or reestablished connection.

During the transition, there is a beeping sound played to the user and an indication in the user interface that the application is trying to reconnect the call.

Note that if a user has multiple ongoing calls, only the active calls are retrieved after restoring the data connection and the other calls are terminated. In which case, the user is notified about the terminated calls.

A typical use case is when a call is started on a WiFi network in the office and the user leaves the office while on the call. In this case, the call is transferred to the 4G/LTE data network, if one is available.

Another use case is when the device loses data coverage for a brief period of time while the user is on a VoIP call (for example, the user enters an elevator). In this case, the call is recovered when the data connection is re-established, provided it is within the configurable period of time, which is approximately one minute.





8 Call History

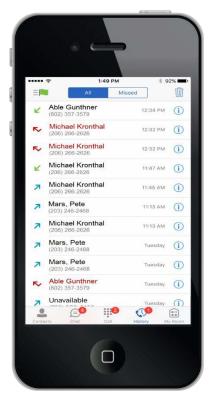


Figure 5 Call History

Call history can be accessed from the *History* tab. Communicator saves a call history for all and missed calls.

On the list of calls, there are icons indicating whether a call was incoming, outgoing, or missed.

The list of the call items consists of an icon showing what kind of call it was (a green arrow means incoming, a blue arrow means outgoing, and a red arrow means missed). It also shows the name, number, and Unavailable status for the caller. Below the name it shows the number, if available, and below the number, it shows the date and time of the call.

In the Call Details screen the user can find information about the duration of the call.

Call History makes it easy for you to redial and call back when you miss a call or when you want to dial a contact with whom you have recently spoken.

9 Side Navigation



The side navigation contains the following items:

- My status
- Call Settings
- **Preferences**
- About
- Help
- Sign Out

Figure 6 Side Navigation

9.1 My Status

You can set your own availability, or presense status, by tapping on your personal status from the side navigation. It opens the My Status screen where you can change your avatar, personal message, and availability status.

Your avatar is the picture that represents you in your friends' Contacts lists and in chat screens. Tapping on an avatar opens a dialog with options to select an existing image, to take a new one with your device's camera, or to clear your avatar.

You can enter a status message into the area next to the avatar. This status text is shown in your friends' Contacts lists.

If you see the error message "Chat Unavailable" under any tab it means that your device's connectivity to the Primus UC system has been lost for chat and availability; however, you can still make calls. This is typically temporary and caused by a brief network disruption or change in connection to another wireless access point.

9.1.1 **Availability Rules**

Availability Rules allow a user to configure calling rules associated with each of the availability states. When the availability state is triggered, the associated rule is applied.

Each availability rule can be configured with one of the following options:





- No Rules
- Forward to Number
- Silent Alerting

9.2 **Call Settings**

The client supports the following Primus service management features, allowing supplementary services to be turned on or off using the native client Call Settings screen:

Call Options

- VoIP Call
- Block My Caller ID
- **Dialing Service**
- iPhone Number

Call Forwarding

- When Not Reachable
- When Busy
- Always
- When No Answer
- Do Not Disturb

Incoming Calls

- Call Waiting
- Simultaneous Ring
- Remote Office
- Primus Anywhere

9.2.1 **Call Forwarding**

By tapping on a different Call Forward option, you can enter a number to forward your calls as follows: Call Forward Always, When Busy, When No Answer, or When Not Reachable.

9.2.2 Do Not Disturb

When you activate this service, all calls are typically blocked by the server and sent to voice mail.

9.2.3 **Primus Anywhere**

Primus Anywhere allows customers to enjoy fixed-mobile convergence (FMC) services without additional equipment.

Primus Anywhere simplifies communications for on-the-go users and remote users by extending the features of a desk phone to any other fixed or mobile device, regardless of the network or handset manufacturer. Callers dial one number and can reach you on any phone the user chooses. A desk phone, cell phone, and/or a soft phone can ring simultaneously.





Voice call continuity is possible with the ability to move live calls from one device to another without hanging up.

Add locations (numbers) that can be used in the service using the **Add New Location** button. Use the Alert all locations to activate parallel ringing.

Select "Prevent Diverting" to prevent a call ending up as a voice mail, which can be problematic, for example, in conference call situations.

Select "Answer Confirmation" to receive a separate audio prompt when answering a call from that number (location). It may be useful in cases where, for example, mobile numbers are being used to prevent incoming calls going to mobile voice mail since the call will be ended without going to voice mail if the answer confirmation is not provided.

Select "Call Control" to enable the server platform to provide mid-call services such as Call Transfer and Conferencing for that number (location).

9.2.4 **Remote Office**

This service allows the use of any phone as the office phone from a charging and numbering perspective. For instance, a home phone can be used as the office phone.

Enable Remote Office and specify a phone number to be used as the Remote Office number.

Preferences 9.3

The client supports the following preferences:

- Language
- Troubleshooting
- Remember password

9.3.1 **Language Support**

The client is prepared for localization and can be delivered in English and French (Canadian).

Mobile and Tablet clients support automatic detection of the device language. The client application detects and selects the language that is in use by the operating system on the device.

NOTE: The legacy method for selecting the language from the application Preferences is still available on the iOS clients. The Android clients support only the new mechanism for automatically using the device language.

9.3.2 **Troubleshooting**

The troubleshooting function can be used if there are issues encountered with the application. It collects and sends diagnostic information to a predefined support email address. This helps support personnel to identify the issues. The information sent consists of the application and media engine diagnostic logs.

Troubleshooting is managed by a menu entry in Settings. It can be accessed from two places in the client:

From the Settings button on the Sign In screen – This opens the screen that contains the help and troubleshooting-related entries. This can be used before the user has





signed in, which is most often for cases when a user has issues with signing in or with connectivity.

From the Preferences screen, accessible from the side navigation. These are available while the user is logged in.

9.3.3 **Remember Password**

The user can choose to remember their login password. This makes it easier for users to sign in and be available for communication.

9.4 **About**

The About screen includes three sub views:

- Info The Info view contains short information text, version, copyright, website URL, app ID, and build version. It also contains a link to the Primus privacy policy which is located at https://primus.ca/privacy-policy.
- License The License view contains the End User License Agreement.
- Legal Notices The Legal Notices view contains third parties used by the application.

9.5 **Help Page**

The client provides a link to the Primus Hosted PBX help page at https://primus.ca/hpbxquide.

9.6 Sign Out

You can sign out at the bottom of the left-side navigation drawer.





10 My Room

My Room is an always available and permanent room you can use to chat with anyone that joins.

My Room is accessible using the My Room icon in the tab bar.

You can add more participants using the add participants icon or they can join your room from your contact card. Once participants join the chat room, they can tap on the Call button of that screen to automatically join the conference.

My Room uses your permanent chat room, permanent collaboration room, and a conference bridge (audio or video). All My Room sessions start as chats but a call can be added to the session while in progress.

Others join your room by tapping your name on their Contacts list and by selecting Join Room from the contact card.

You can dial into others contact's My Room audio bridge from the directory contact card.

10.1 Guest Client

The Guest Client feature is specifically intended for users outside of the company. Communicator users can invite Guest Client users to their My Room by selecting "Copy Guest Join Link" from a My Room menu button on the top right corner. The copied link delivery (that is, email) is outside the scope of Communicator.

Guest users can join a session with audio in the web browser by requesting a Call Back using the provided dial-in number and conference PIN. They can also use group chat and sharing inside the web browser. However, guest clients do not have the private chat possibility and they can only see the Chat History of messages that occurred after they joined the session.

The My Room owner is prompted to accept or reject Guest Client users requesting to join the My Room session.



11 Communicator and iPhone Settings

From iPhone Settings

Communicator, the user can allow Communicator to access:

- Contacts
- Microphone
- Camera
- **Notifications**
- Cellular Data

It is recommended that Communicator have access to all resources in the previous list.

In addition, the user can configure the type of notifications they want to get with Communicator:

- **Allow Notifications**
- **Show in Notification Center**
- Sounds
- Badge App Icon
- Show on Lock Screen

It is recommended for all items in the previous list to be enabled.

In addition, it is recommended to configure the option Alert style when unlocked to "Alerts".



12 Search

Communicator supports search in Communicator Contacts and Contact Directories. The search is performed in a separate input field in the Contacts tab. Depending on the selected filter (All, Online, Local Address Book, or Directories), search results display contacts only from the current selected category.

In other words, the clients do not perform directory searches unless the user goes into the directory section itself, otherwise, the search just filters the Contact List.

When searching the Enterprise Directory, the search is also performed in several more search sources:

- User's Personal Phone List
- Group's Common Phone List
- Enterprise's Common Phone List

The enhanced search is applied for both contacts searching initiated by the user and upon receiving an incoming call, and searching for a display name corresponding to an unknown number.





13 Push Notifications

13.1 Push Notifications for Incoming Calls

Communicator introduces support for Push Notifications to get alerted for incoming calls and for accepting VoIP calls.

When there is new call, a Push Notification is sent to the client, which is presented to the user as either platform-specific visual notification or in the user interface of the application.

From a user experience standpoint, accepting a call works in the same way for both pushenabled clients and non-push-enabled clients.

On iOS, when the client is in the background, the call is presented to the user with an iOSspecific local notification (alert or banner). When the client is in the foreground, the call is presented with an *Incoming Call* application screen with Answer and Decline buttons.

Outgoing VoIP calls are performed with SIP registration on demand, which is transparent to the user. The SIP registration is done only when the user initiates the VoIP call.

In addition to Push Notifications for new calls, the solution also supports Push Notifications for new voice mail.

NOTE: When using Push Notifications for calls and Apple Watch, notifications go to the iPhone or the Apple Watch, depending on the device that is being used. When there is an incoming call and the phone is locked, the notification is only shown on the watch. The user can see the notification on the watch but cannot pick up the call from the watch. For more information, see the following Apple support document: https://support.apple.com/en-us/HT204791.

13.2 Push Notifications for Chat Messages

Communicator introduces support for Push Notifications for Chat Messages.

Mobile client applications use Push Notifications to get alerted for incoming messages and chat invitations.

When there is new message, a Push Notification is sent to the client, which is presented to the user as either a platform-specific visual notification or in the user interface of the client application.

The following functionality is supported with Push Notifications:

- Receiving one-on-one messages.
- Receiving My Room and chat invitations.
- Receiving requests for approving guest invitations.

NOTE: A user can decide to explicitly remove the application from memory by swiping it, at which point the application is no longer running in the background.

Push Notifications for incoming calls and one-on-one messages are received even if the client application is not running, provided that the user has signed in and registered for Push Notifications before the application is removed from memory.

Push Notifications for invitations into My Room or group chats, Push Notifications for approving Guest Client invitations, as well as ongoing communication in a chat room require the client application to be running either in the background or foreground. In addition, the application icon badge for unread conversations is updated only if the application is running in the background.



14 Multi-Device Support

Communicator provides support for users with multiple devices. This includes several features:

- Chat invitations are sent to all devices.
- Retrieving one's own presence notifications when another client updates the user's presence. The client updates its own status based on the information it receives from the server.
- Accepting a shared presence invitation in one client is also recognized by another client and both clients start receiving presence updates.
- A new presence subscription made in one client is recognized in another. If the contact blocks the invitation, then there are presence notifications sent from the server to all of the user's clients indicating that the subscription was terminated. This information is shown to the user. If the client receives two presence authorization requests from two or more devices for the same user, it only shows one request to the user.
- Removing a contact from a Contact List in one device is recognized in another client and the Contact List is updated (that is, the contact is removed) in the other client as

14.1 Message History and Message Read Status Synchronization

Communicator introduces support for synchronizing message history and message read status on all devices.

- Message history is retrieved and synchronized on all devices. This includes all received and sent messages, even if the particular user device is not online when a message is received or sent.
- Message history is fetched when the mobile application is brought from the background to the foreground, or during certain time periods when receiving messages in the background.

NOTE: Received messages are immediately available on all logged clients, while sent messages are synchronized when the message history is fetched from the server.

Messages read status is also synchronized when a message is read on another device and unread message counts are appropriately updated on badges.

NOTE: The application icon badge for unread messages is updated only if the application is running in the background.



15 Other Features

15.1 Version Control

Version control is supported using the App Store mechanism. When a new release is available, the old version is removed from the App Store and users of the previous version are notified about the update.

15.2 Privacy Management

When the end user adds contacts to the Contacts list, these contacts receive a New Subscriber dialog asking whether they allow the end user to see their presence. This information is stored in this contact's presence policies.

15.3 Firewalls and NATs

The client supports rport (RFC 3581) for Network Address Translation (NAT) traversal and using the client behind a firewall.

15.4 Support for iPhone X

The Communicator mobile client User Experience (UX) is optimized to support the new iPhone X form factor.

15.5 Privacy Policy

The Mobile and Tablet clients show the Primus privacy policy via a clickable link in the About view opening into an external browser. The privacy policy can be viewed at https://primus.ca/privacy-policy.





Acronyms and Abbreviations

ACD **Automatic Call Distribution**

CLID Calling Line Identity

CS Circuit-Switched

FMC Fixed-Mobile Covergence

GAL Global Address List

HTTPS Hypertext Transfer Protocol Secure Sockets

IM **Instant Messaging**

IdP External Identity Provider

IM&P Instant Messaging and Presence

IP Multimedia Routing Number **IMRN**

IΡ Internet Protocol

Long Term Evolution LTE

MWI Message Waiting Indicator or Indication

NAT **Network Address Translation**

PBX Private Branch Exchange

QoS Quality of Service

RTCP Real-Time Control Protocol

SAML Security Assertion Markup Language

SBC Session Border Controller

SIP Session Initiation Protocol

ΤN Telephone Number

UC **Unified Communications**

UI / UX User Interface / User Experience

URL Uniform Resource Locator

VM Voice Mail

VolP Voice Over IP

VPN Virtual Private Network

WebRTC Web Real-Time Communication

XMPP Extensible Messaging and Presence Protocol

Xtended Services Interface Xsi





Appendix A: Third-Party Software

This software uses XMPP Framework

(https://github.com/robbiehanson/XMPPFramework), license:

https://github.com/robbiehanson/XMPPFramework/blob/master/copying.txt

This software uses CocoaAsyncSocket

(https://github.com/robbiehanson/CocoaAsyncSocket), public domain

This software uses CocoaLumberjack

(https://github.com/robbiehanson/CocoaLumberjack), license:

https://github.com/robbiehanson/CocoaLumberjack/blob/master/LICENSE.txt

This software uses XML-to-NSDictionary (https://github.com/bcaccinolo/XML-to-

NSDictionary), license: https://github.com/bcaccinolo/XML-to-

NSDictionary/blob/master/LICENCE

This software uses ASIHTTPRequest (http://allseeing-i.com/ASIHTTPRequest),

license: https://github.com/pokeb/asi-http-request/blob/master/LICENSE

This software uses Minizip (http://www.winimage.com/zLibDll/minizip.html),

license: http://zlib.net/zlib license.html

This software uses JASidePanelController Copyright (c) 2012 Jesse Andersen. All rights

reserved.

This software uses WebRTC (http://www.webrtc.org/),

license: https://webrtc.org/license/software/

This software uses libSRTP (https://github.com/cisco/libsrtp), license: https://github.com/cisco/libsrtp#license-and-disclaimer