

# BroadSoft® Guide

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# 1 Summary of Changes

This section describes the changes to this document for each release and document version.

## 1.1 Changes for Release 21.4.1, Document Version 2

This version of the document includes the following change:

- . Added description for contact ordering in section 5.4 Filters.

## 1.2 Changes for Release 21.4.1, Document Version 1

This version of the document includes the following changes:

- Added section 8.1.1 VoIP Mode.
- Added information about Dial into contact's My Room audio bridge.
- Added information about default selector for soft phone.
- Added section 14 Push Notifications
- Added information in section 8.13 Call Pull.
- Added information about Clear History.

## 1.3 Changes for Release 21.3.1, Document Version 1

This version of the document includes the following changes:

- Added section 16.8 Emergency Call Address Change Service.
- Added section 10.3.5 Device ID for Lock Device feature.
- Added information about multiple vibrations in silent mode.
- Added section 8.19 Swipe between Chat and Audio/Video Communication Views.
- Added more participants to Video call or N-Way video.
- Added section 10.3.4 Caller ID Lookup.
- Updated section 13 Search.
- Added section 12 Communicator and iPhone Settings.

## 1.4 Changes for Release 21.2.1, Document Version 1

This version of the document includes the following changes:

- Added new functionality Mid-Call controls for business circuit-switched calls.
- Added new functionality for Presence Rules.
- Added new functionality for Personal Assistant.
- Added new functionality in Directory Search.
- Updated screenshots.



## 1.5 Changes for Release 21.1.1, Document Version 1

This version of the document includes the following changes:

- Added the new Guest Client feature to section 11 My Room.
- Updated section 6 Presence.
- Updated section 8.7 Business Line Call Back and Call Through.

## 1.6 Changes for Release 21.0.2, Document Version 1

This version of the document includes the following change:

- Updated document version.

## 1.7 Changes for Release 21.0.1, Document Version 1

This version of the document includes the following changes:

- Added My Room tab.
- Added Side Navigation.
- Added Appendix A: Third Party Software and Copyright.
- Updated Contacts information.
- Updated document images.

## 1.8 Changes for Release 20.1.2, Document Version 1

This version of the document includes the following changes:

- Added section 10.2.5 BroadWorks Mobility.
- Updated section 8.7 Business Line Call Back and Call Through.
- Added description for spellcheck / autocorrect.

## 1.9 Changes for Release 20.1.0, Document Version 1

This version of the document includes the following changes:

- Added Forgot Password description in section 3.2 Sign In.
- Added description for adding local contacts in section 5.1 Add.
- Updated information about Buddies, which are moved from the Chat to the Contact
- tab.
- Updated section 8 Audio and Video Calls.
- Added Test Call description in section 10.5 Test Call.

## 1.10 Changes for Release 20.0.1, Document Version 1

This version of the document includes the following change:

- Updated section 11 My Room for Release 20.0.1.

## 1.11 Changes for Release 20.0.0, Document Version 1

This document was created for Release 20.0.0.

## 2 About Communicator for iPhone

Communicator for iPhone provides the following communication features:

- Instant Messaging and Presence (IM&P)
- Voice Calling (VoIP)
- Voice Calling (Circuit Switched)
- Video Calling
- BroadWorks Call Settings

## 3 Get Started

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

### 3.1 Installation

The iPhone client can be downloaded from Apple App Store.

### 3.2 Sign In

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

1. If displayed, enter the device configuration address (Uniform Resource Identifier [URI]) provided by your service provider.
2. Enter your BroadWorks user name and password.
3. Select whether you would like Communicator to remember your password.
4. Select whether you would like Communicator to sign you in automatically on subsequent launches.
5. Tap **Sign In**.

**NOTE:** Once user is signed in, the application will not ask again for username and password until the user signs out. The login is preserved even if the application is terminated or the device is restarted.

With basic sign-in, there are three options on the emergency call pop-up:

- Update location – Opens a web browser where the user can set the location. When the location is set, the user can return to the client to sign in.
- Ok – Sign-in completes and the user can use the client.
- Cancel – Sign-in is canceled and the user is returned in the Sign In screen.

With advanced sign-in, there are two options:

- Update location – Opens a web browser where the user can set the location. When the location is set, the user returns to the client manually. If the location is updated successfully, sign-in completes and the user can use the client.
- Cancel – Sign-in is canceled and the user is returned to the Sign In screen.

Depending on your service provider settings, the client may have a Forgot Password link on the login dialog box allowing retrieval of forgotten passwords. The functionality for retrieving the password is provided by the service provider.

## 4 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.

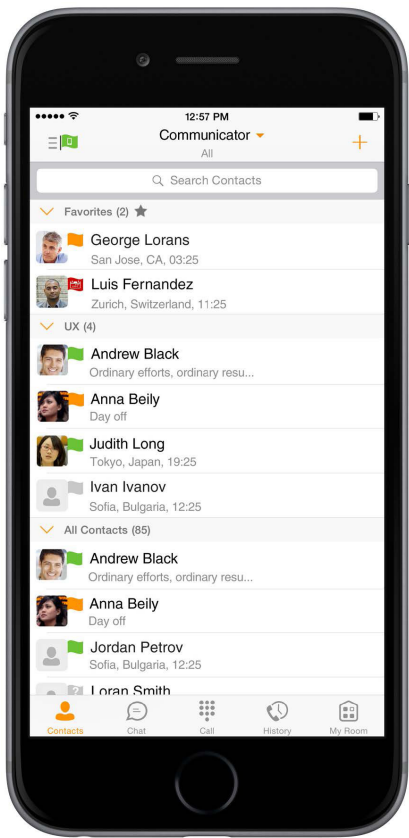







Figure 1 Main View

Icon	Description
	Contacts – View your buddy list and local contacts or search for directory contacts.
	Chat – View Chat History.
	Call – Make calls.
	History – View incoming, outgoing, and missed calls.
	My Room – Join My Room.

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

The Communicator default tab is “Contacts” and in the soft phone view, the default tab is “Directory”.

## 5 Contacts

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

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

Any contact can be marked as a favorite and it appears at the top of the Contacts list in the Favorites section.

Presence-enabled contacts are users with an Extensible Messaging and Presence Protocol (XMPP) address. These can be other Communicator users or users from federated systems such as Google Talk. Non-presence-enabled contacts can be phone or conference numbers.

The iPhone client shows contact groups created from the Desktop or Tablet devices. The contacts groups cannot be created or edited from the iPhone client.

- The Contacts tab contains:
  - Communicator Contacts
    - All
    - Online
  - . Contact Directories
    - Local Address Book
    - Directory

Directory provides the company directory contacts. The Local contact list provides the contacts from the local phone book.

### 5.1 Contact Card

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.

The user 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.

### 5.2 Add Contacts

When you sign in for the first time, there are no contacts on your Contacts list. Add a new presence-enabled 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 click Done. By default, your presence information is always shared with a new contact if an XMPP address is provided.

If you receive a buddy request invitation, you can ignore or accept it. If you ignore the buddy request, you can always share your presence information later by selecting Subscribe from the buddy 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.

## 5.3 Edit Contacts

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 button opens the Contact Information dialog box where you can add, edit, or remove information. This works for both presence-enabled 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.

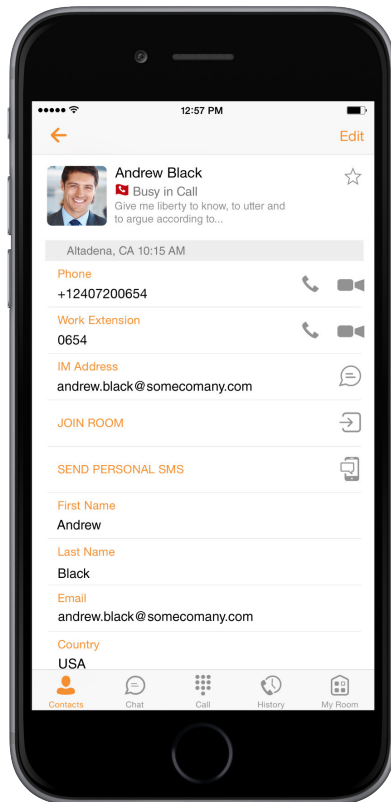


Figure 2 Edit Contact

## 5.4 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).

Contacts sorting and ordering:

- Local contacts are ordered in groups by letter, based on the first letter of their display name. There isn't 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 above are missing, then the phone number is used for display name.








- All Contacts with Groups are ordered like in the native app, based on phone settings: Settings > Mail, Contacts, Calendars > Contacts > Sort Order.

## 6 Availability

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

NOTE: Availability can also be referred to as presence status, which was the term used in previous releases of Communicator.

Availability means that your friends are able to see whether you are available, for example, “I’m available” or “I’m busy”.

Icon	What it means
	The green availability icon indicates that the user is online and ready for communication.
	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.
	The red availability icon indicates that the user is busy and does not want to be disturbed.
	The grey availability state icon indicates that the user is offline and the only available contact method is calling or leaving a chat message.
	The question mark indicates that a subscription is pending and the contact has not yet approved sharing their availability.
	This icon indicates that the contact is busy due to a call. This is an automated availability status.
	This icon indicates that the contact is busy due to a meeting. This is an automated availability 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 XMPPconnectivity has been lost for chat and availability; however, you can still make calls. In this case, you should contact your service provider.

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 .



## 7 Instant Messaging

### 7.1 Chat Tab

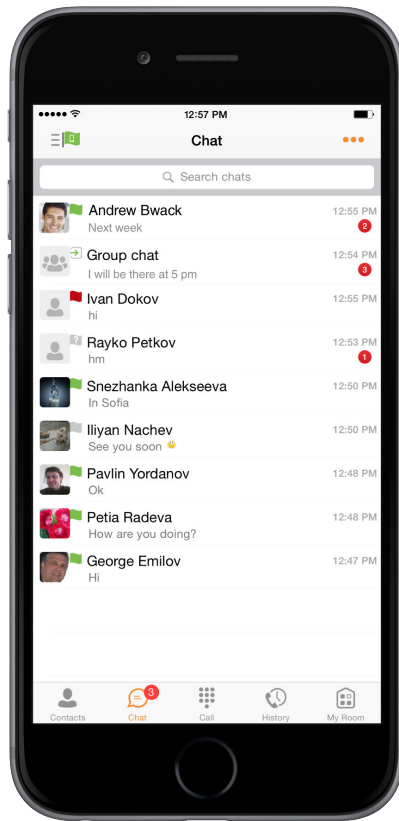


Figure 3 Chat Tab

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 one is 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 Launch My Room and Start Group Chat option. This option removes all notification badges from the Chat History list.

### 7.2 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 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 texture 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 the user wants to continue chatting. If the user navigates back to the chat list, then this specific chat entry is removed from the list because there is no chat history associated with it.

## 7.3 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 chat.
- 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.

A user can leave a group chat by selecting the Leave chat option. The chat is marked as "offline" and the user no longer receives messages from the chat. When tapping on the "offline" chat, the user re-joins the room and starts receiving messages. However, the user does not receive the messages that were sent in the chat while the user was outside of the room.

The Clear History menu item works the same way as the corresponding option in a one-on-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.

## 7.4 Chat Recording

The Communicator client can provide a chat recording indication to users for all chat sessions depending on the server configuration. Chat recording state is applied to all users registered in a single domain. This setting is not specific to any user and therefore the recording state cannot be modified by end users.

## 8 Audio and Video Calls

### 8.1 Dial Pad Tab

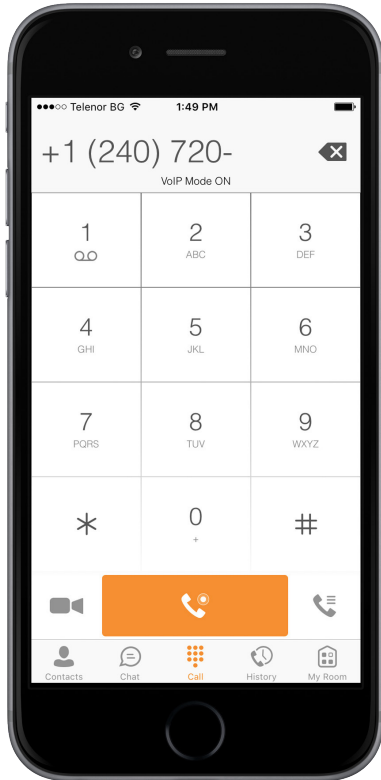


Figure 4 Dial Pad Tab

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 tab when there are messages in the voice mail 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.

#### 8.1.1 VoIP Calling Mode

Communicator Mobile supports an option that allows a user 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 leverage BroadWorks Anywhere or Mobility to present the business identity of the user (for more information, see section 8.7 Business Line Call Back and Call Through).

Users can switch between VoIP and Mobile through the Dialpad menu. An indication of the currently selected mode is displayed on the Dialpad.

- VoIP Mode On:
  - Outgoing and incoming calls use VoIP over WiFi or data network.
  - BroadWorks Anywhere or Mobility location for the device is disabled.

## VoIP Mode Off:

- Outgoing and incoming calls use the mobile circuit-switched network.
- BroadWorks Anywhere or Mobility location for the device is enabled.  
Outgoing calls are performed with Call Through or Call Back. Incoming calls are delivered via the BroadWorks Anywhere or Mobility location.







VoIP calls over the carrier data network are dependent on the quality of the network and may incur additional charges. As such, there are options for an operator or end user to disable VoIP calls over the carrier data network (3G, 4G, or LTE) if needed. Users can control this behavior in Call Settings > VoIP Calls.

There are two options:

- WiFi only: VoIP calls are allowed only on WiFi.
- All Networks: VoIP calls are allowed only on any data network.

## 8.2 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  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  for an 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.

## 8.3 Answer Call

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 causes the line to sound busy at the caller's end and they know that you rejected the call.

If user is in the middle of a VoIP call and receives an incoming cellular call, the VoIP call is put on hold right away before answering/declining it.

If the iOS device (iPhone or iPad) is locked and there is incoming VoIP call, a notification is displayed to the user 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.

## 8.4 Communicator In Call Actions



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
- Escalate from an audio to video call and downgrade from a video to audio call
- Place a call on hold
- Make a new call
- Transfer a call – Attended
- Transfer a call – Unattended
- Make a conference
- Park a call

- Transfer a call to circuit-switched call
- Add more participants (in conference call only)
- Merge two separate calls
- Swap two separate calls
- View participants (on a conference call)

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

## 8.5 Missed Calls and New Messages

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

## 8.6 Message Waiting Indicator and Voice Mail Access

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).

Starting with Communicator Release 21.2.x, the application provides mid-call control services for business circuit-switched calls. For more information, see section 8.18 Mid-Call Controls for Circuit-switched Business Calls.

**NOTE:** The following functionality is only available for iOS.

The iOS client provides two additional settings related to Call Back dialing:

- Callback validation – if set to “ON”, it checks that BroadWorks Anywhere or Remote Office is enabled and verifies that the phone number in BroadWorks Anywhere or Remote Office matches the users mobile phone number.
- Mobility – if set to “ON”, it imposes that the Mobility service number is used for Call Back instead of BroadWorks Anywhere or Remote Office.

## 8.8 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: XMPP contact name, Enterprise directories, Local Contact, PIdentifier header (SIP), and From header (SIP). If the number matches one of the contacts, the name is shown on the incoming call screen.

## 8.9 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.

## 8.10 N-Way Calling (Conference)

Communicator supports network SIP-based conference 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 a Conference call or to add participants to an existing Conference is to make a second new call and then select the merge option.

## 8.11 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.
2. 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.

## 8.12 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 pressing 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.

## 8.13 Call Pull

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

**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 (anchored at BroadWorks). Call Pull requires initiating a VoIP call and iOS initiating a VoIP call during a circuit-switched call.



### 8.17 Bluetooth Support

You can perform audio calls from a compatible Bluetooth headset. The System requirements section in the Communicator for Desktop and Mobile Product Guide lists the headsets that have been tested, although other Bluetooth devices should also work. Communicator Mobile iOS supports mute and volume control from the Bluetooth headset; however, answer and hang up are supported only from the application.

## 8.18 Mid-Call Controls for Circuit-switched Business Calls

Communicator Mobile provides mid-call control services for business circuit-switched calls that are anchored at BroadWorks.

This functionality is available for:

- Call Through and Call Back circuit-switched calls initiated from the Communicator client via the native phone dialer.
- Incoming circuit-switch calls delivered to the mobile phone via BroadWorks Anywhere, BroadWorks Mobility, or Remote Office location.

Supported mid-call control services are:

- Hold / Resume. For more than one call, this functionality requires BroadWorks Call Control to be turned ON for the location.
- Transfer
- Conference (limited to five participants)
- Swap. Requires BroadWorks Call Control to be turned ON for the location.
- . End call

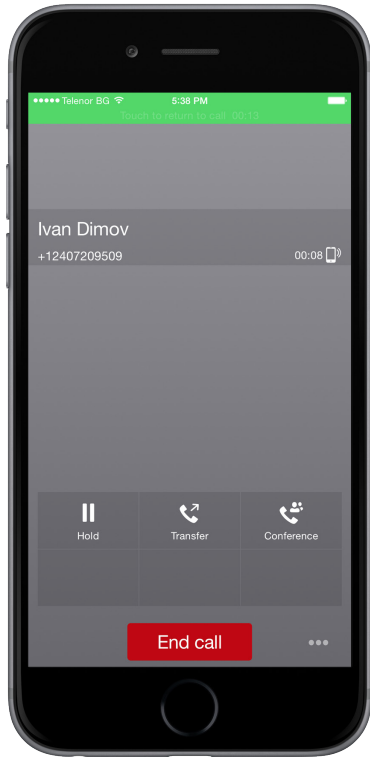


Figure 6 Call Started

After initiating a Call Through or Call Back call or after receiving a business circuitswitched 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 (shown in the previous figure) which can be used to manage the call.

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

## 8.19 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 the sessions.

## 9 Call History

The client supports the basic BroadWorks Call History. From the segmented controls the Call History can be set to show all or 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, Unavailable status for the caller, and below the name, it shows the number, if available. To the right, is the date of the call and the time the call was initiated.

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.

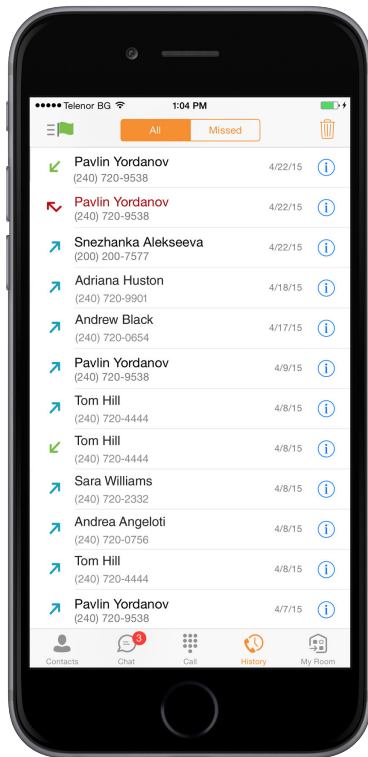


Figure 7 Call History

## 10 Side Navigation

The Side Navigation contains the following items:

- . My status
- . Call Settings
- . Preferences
- . About
- . Version
- . Help
- . Sign out

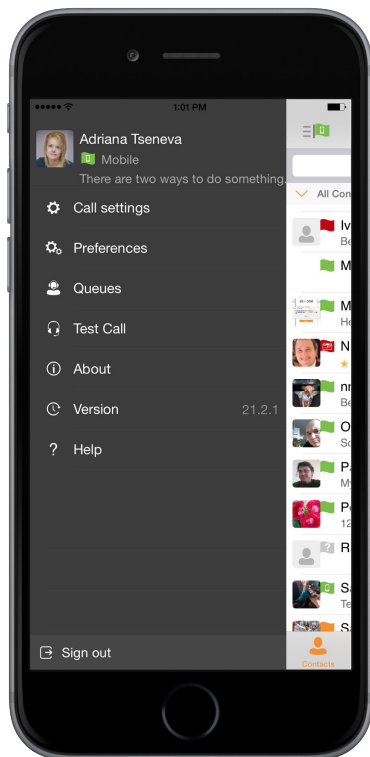


Figure 8 Side Navigation

## 10.1 My Status

You can set your own availability 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.

**NOTE:** Availability can also be referred to as presence status, which was the term used in previous versions of Communicator.

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 XMPP connectivity has been lost for chat and availability; however, you can still make calls. In this case, you should contact your service provider.

## 10.2 Call Settings

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

### 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
- Personal Assistant

## Incoming Calls

- Simultaneous Ring
- BroadWorks Remote Office
- BroadWorks Anywhere
- BroadWorks Mobility

### 10.2.1 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.

### 10.2.3 Do Not Disturb

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

### 10.2.4 BroadWorks Anywhere

BroadWorks Anywhere allows service providers to offer fixed-mobile convergence (FMC) services without additional equipment.

BroadWorks 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).

## 10.2.5 BroadWorks Mobility

BroadWorks Mobility is a flexible solution that extends the BroadWorks Centrex features transparently to the mobile network. This service provides a set of mobile capabilities that help meet the key requirements of mobile operators for deployment of business services to the mobile handsets.

The following attributes can be set:

- Active – Flag to enable or disable the BroadWorks Mobility service for the user.
- Mobile Number – This is the subscriber’s mobile number in E.164 format.
- Phones To Ring – The default is “Fixed”. The options are as follows:
  - Fixed – If set, then only the user’s desk phone is alerted.
  - Mobile – If set, then only the user’s mobile phone is alerted.
  - Both – If set, then both the mobile phone as well as desk phone of the user are alerted.

The following attributes apply when the alerting mobile is set:

- Alert for Click-To-Dial – If checked, Click To Dial calls alert the mobile phone.
- Alert for Group Paging – If checked, group paging calls alert the mobile phone.
- Prevent Diverting – This attribute determines whether the Application Server enables a diversion inhibitor when extending a call leg to the mobile phone.
- Answer Confirmation – This attribute determines whether the Application Server prompts for an answer confirmation when the user answers the mobile call leg.
- Call Control – This attribute determines whether call control is to be performed by the mobile device (off) or by BroadWorks (on). This must be turned on to provide mid-call service features to the mobile originated or terminated calls.



## 10.3 Preferences

The client supports the following preferences:

- Language
- Troubleshooting
- Remember password
- Sign in automatically
- Caller ID Lookup
- Enable video calls

The preferences available through Sign In screen are as follows:

- Language
- Version
- Device ID
- Help
- About
- Troubleshooting

### 10.3.1 Language Support

The client is prepared for localization and can be delivered in any language. Currently, the client is available in the following languages:

- U.S. English
- French
- French (Canadian)
- German
- Italian
- Spanish (European)
- Spanish (Latin America)
- Korean
- Japanese
- Chinese

Additional languages are available upon request as part of a customization project.

## 10.3.3 Sign In Automatically

The user can choose to sign in automatically with Communicator Mobile with a default account when the client is started. Together with the functionality to start Communicator automatically at system startup, this makes it easier for users to remember to sign in and be available for communication.

## 10.3.4 Caller ID Lookup

When there is an incoming call, Communicator matches it by searching in the contact list, local address book, and BroadWorks directory. To improve the performance, Communicator for iPhone provides the ability to turn on/off searching in the local address book.

## 10.3.5 Device ID

Communicator has the ability to lock the user to a single desktop or mobile device, so that the software cannot be used on other hardware. The iPhone user can copy the Device ID from Preferences before signing into the application and provide it to the company administrator. The administrator locks Communicator to the reported device and the user can sign in only from this device.

## 10.6 Help Page

The client provides web-based help that can be launched from the Settings view.

## 10.7 Sign Out

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

## 11 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.

### 11.1 Guest Client

This 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.

Guest client user invitations can be revoked by selecting "Reset Guest Link" from the My Room menu button.

## 12 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 of the 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 of the items in the previous list to be enabled.

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

## 13 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 addition to results from 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.

Communicator for iOS also supports search in an LDAP-compatible directory like Microsoft Exchange. If the device email and contact applications are synchronized with Microsoft Exchange or a compatible email provider, Communicator can look up contacts from the directory Global Address List (GAL). This search is available through Contacts, Local Address Book, All Contacts with Groups, Groups, and GAL.

## 15 Multi-Device Support

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

- Chat invitations are sent to all devices. Before the session is accepted, messages are sent to all devices, and once answered, the chat messages go to the device that sent a reply message.
- 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, 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 well.

## 16 Other Features

### 16.3 Privacy Management

Communicator supports authentication with a user name and password for different services and servers requiring authentication. For convenience, the end user can save a user name and password for different realms.

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.

At any time, the user can edit the presence policies, (which are stored on the server). The user can see all contacts that are allowed to view the user's presence (white list) and users that are not allowed to view the user's presence (blacklist). This feature requires a compatible presence server.

### 16.4 Firewalls and NATs

The client supports rport (RFC 3581) for Network Address Translation (NAT) traversal and for using the client behind a firewall. However, it is assumed that the client is mainly used with a session border controller (SBC), which also provides support for NAT traversal for several key features, such as calling (which is currently unlikely to work without an SBC).



### 16.5 Failover and Failback

The client supports failover and failback mechanisms for all used protocols: Xsi, XMPP, and SIP. This feature is used to:

- . Detect multiple connection endpoints (per protocol).
- . Order connection points by priority.
- . Connect to the highest priority connection point.
- Reconnect to the next connection point by priority one (if there is a problem with the primary connection point).
- Provide a failback mechanism to switch back to the primary (which is the highest priority connection point).

## Acronyms and Abbreviations

APN	Access Point Name
ACD	Automatic Call Distribution
CC	Country Codes
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
CS	Circuit Switched
DSCP	Differentiated Services Code Point
FMC	Fixed-Mobile Convergence
GAL	Global Address List
HTTP	Hypertext Transfer Protocol
HTTPS	Hypertext Transfer Protocol Secure Sockets
IM&P	Instant Messaging and Availability
IMRN	IP Multimedia Routing Number
IP	Internet Protocol
NAT	Network Address Translation
PBX	Private Branch Exchange
PIN	Personal Identification Number
QoS	Quality of Service
RCS	Rich Communication Suite
RTCP	Real-Time Control Protocol
SBC	Session Border Controller
SIM	Subscriber Identity Module
SIP	Session Initiation Protocol
TN	Telephone Number
ToS	Type of Service
UC	Unified Communications
UI	User Interface
URI	Uniform Resource Identifier
URL	Uniform Resource Locator
VM	Voice Mail
VoIP	Voice Over IP

VPN	Virtual Private Network
XMPP	Extensible Messaging and Presence Protocol
XR	Extended Report
Xsi	Xtended Services Interface

## Appendix A: Third Party Software and Copyright

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- \* OpenSSL is only used as part of the Screen Share feature, which is not available in the Communicator for iPhone.