



# **Communicator for Desktop**

## **User Guide**

Desktop Release 22

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## **1 About Communicator for Desktop**

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Communicator for Desktop is a native Windows or Mac client for Unified Communications, providing the following communication features:

- Instant Messaging and Presence
- Voice Calling (VoIP)
- Voice Calling (Desk phone)
- Video Calling
- Desktop Sharing
- Reynwood Call Settings

## 2 Get Started

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This section contains the essential information for getting started with Communicator. End users need to ensure they are using valid drivers for video (for example).

### 2.1 Installation

Your service provider provides the download of the installer.

#### Windows

- Double-click the installer executable and follow the installation instructions.
- Launch Communicator.

#### OS X

- Double-click the disk image.
- Copy the application into the *Applications* folder.
- Launch Communicator.

### 2.2 Sign In

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

- 1) If displayed, enter the login Uniform Resource Locator (URL) provided by the service provider.
- 2) Enter your Reynwood user name and password (in PIV mode, only a PIN is needed).
- 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) Click **Sign In**.

You can also access *Help* and *Preferences* directly from the login window.

**NOTE:** If you choose automatic sign in, you are automatically signed in and taken to the *Main* window upon subsequent Communicator launches. Otherwise, you are presented with the *Sign In* screen when launching the application. In the *Main* window, your default tab when signing in depends on service provider configuration; otherwise, Communicator remembers the tab you were on at sign out and opens that same tab at sign in.

The *Login* window offers the last used username, but the password shall be automatically filled in only if you have checked the **Save password** checkbox. If multiple people use the same machine, only the last password is entered as a security measure. If you change the username in the *Login* window through editing it, or using the drop-down list to pick another one, Communicator will not fill in the password; you are always expected to type it in. This also applies when re-selecting or re-entering the last used username.

After logging in, a pop-up dialog may appear informing you about emergency calls, and another about changing your location for emergency calls. You may also see a banner in the *Main* window related to emergency calls. Depending on your service provider settings, emergency calls may not be allowed. In this case, calling an emergency number displays a pop-up dialog. A notification message in the *Main* window may also display. It is not a supported configuration to run many desktop clients at the same time with the same account.

## 2.3 Main Window

When you start Communicator for the first time, your *Contacts* list is empty. Use the *Search and Dial* field to find people and add them to your *Contacts* list. Contacts can also be added manually by clicking the **Add** button. Client windows can also be set to be always using the *Main* window menu option. Note also, that depending on your service provider settings, the order of the left pane icons may vary. The left pane call settings icon and menus are visible depending on your service provider settings. The dial pad is also integrated with the *Main* window.

Communicator uses tabs for new chat sessions. The *Search and Dial* field allows searching for contacts as well as making calls using phone numbers or SIP URIs (native desktop only). SIP URIs must use the format `user@domain` or `sip:user@domain`. The table that follows the images describes the key icons used in the *Main* and *Communications* windows.

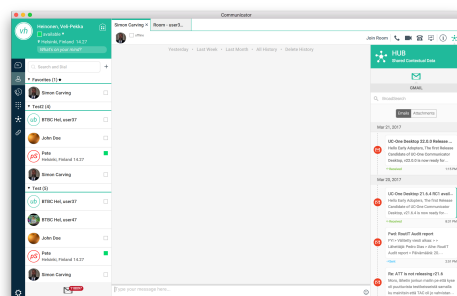



















Figure 1 Tabbed Main Window

Icon	Usage
	<b>My Information</b> – View and update your information, for example, your presence, avatar, and location.
	<b>Contacts</b> – View your contacts.
	<b>My Room</b> – This is your permanent communication room. Participants can dial in to your audio bridge.
	<b>Call History</b> – View previous calls.
	<b>Chat History</b> – View previous chats.
	<b>Full Enterprise Directory</b> – Show all contacts of the directory.




Icon	Usage
	<b>Dial Pad</b> – Make calls (it is integrated with the <i>Main</i> window).
	<b>Web Button</b> – Provides web content inside the <i>Main</i> window or browser.
	<b>UC-One Hub</b> – Provides micro-apps and contextual intelligence to chat tabs.
	<b>Preferences</b> – Use for quick access to preferences and call settings such as Call Forwarding.
	<b>Chat</b> – Start an instant message conversation with a selected contact.
	<b>Call</b> – Make an IP audio call to a selected contact.
	<b>Call from Phone</b> – Make a Click To Dial call from your desk phone (or secondary device).
	<b>Video Call</b> – Make a video call to a selected client (VoIP).
	<b>Share</b> – Share either the whole screen or an individual application.
	<b>Menu</b> – Open communications options.
	<b>Add</b> – Add a contact, group, or conference.




### My Information

- Click the avatar to update your status or location and enter free text (native desktop only)
- Double-click the avatar to upload a picture or use a right-click menu.
- Right-click the avatar to update your status (native desktop only).

### Presence

You can set your presence to one status indicated in the following table.

Icon	What it means
	The green presence icon indicates that the user is online and ready for communication.
	The yellow presence icon indicates that the user is online but has been idle or away from their computer for more than ten minutes.
	The red presence icon indicates that the user is busy and does not want to be disturbed.

Icon	What it means
	The grey presence icon indicates that the user is offline and the only available contact method is calling or leaving a chat message.
	This icon indicates that the contact is busy on a call. This is an automated presence status.
	This icon indicates that the contact is busy in a meeting. This is an automated presence status. The <i>Busy – In Call</i> status overrides the <i>Busy – In Meeting</i> status so this one is only seen if there is a meeting but no call.

Communicator can automatically update your presence to the following:

- *Busy – In Call*
- *Busy – In Meeting* (Windows only)
- *Available (desk phone)*
- *Available (mobile)*
- *Away on mobile*
- *Offline and busy in call*

### Location

Your location is automatically determined by your public IP address; however, you can manually set the text to appear for your location and time zone using the location dialog box.

## 2.4 Communications View

After starting communication with one or more contacts, a new tab is displayed for chat. The call window is also integrated with the *Main* window chat tab by default.. You can separate a tab on to a different *Communications* window by dragging and dropping it outside of the *Main* window. From this view, you can perform the following actions:

- Escalate a chat to include audio, video, and desktop sharing
- End an audio or video call
- Open the dial pad
- Mute your microphone
- Adjust your speaker volume
- Place a call on hold
- Transfer a call

If you are using several monitors, Communicator opens the *Communications* window as well as notifications on the same monitor as the *Main* window.

As of Release 21.2.0, Communicator limits the number of active communications to spare resources. The limit is 20 active communications on Windows and on OS X. If the maximum is reached, the main window's top section warns user with the following message: "*The maximum amount of communication windows has been reached. Please close some to open new ones.*"

If an incoming call is answered while this warning is shown, the client closes the chat session that has the longest time since its last activity.

## 2.5 Start Chat

Start a chat tab using one of the following methods:

- Double-click a contact from the *Contacts* list or search results.
- Left-click one or more contacts from the *Contacts* list or search results and click the **Chat** button (native desktop only)
- Right-click one or more contacts from the *Contacts* list or search results and click the **Chat** button.
- On the *Communications History* list, double-click a chat entry.
- In a *Communications* window, click the **Chat** button (this does not open a new tab).

## 2.6 Send File

- In a one-to-one chat, transfer files by clicking the **Send File** button in the *Communications* window or use the “drag and drop” method so that they are moved to the *Communications* window.

## 2.7 Send E-mail

Right-click a contact from the *Contacts* list or search results and select the **Email** menu option. The contact must have an e-mail address defined for this feature.

## 2.8 Make Audio or Video Call

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

- Left-click one or more contacts from the *Contacts* list or search results and click the **Call**, **Call from Phone**, or **Video** button. The menu items depend on service provider settings.
- Right-click one or more contacts from the *Contacts* list or search results and click the **Call**, **Call from Phone**, or **Video**. The menu items depend on service provider settings.
- Enter a phone number in the *Search and Dial* field.
  - Press **ENTER** to start a VoIP call.
  - Click the **Call**, **Call from Phone**, or **Video** button.
- Open the dial pad, enter a phone number, and then click the **Call**, **Call from Phone**, or **Video** button.
- On the *Communications History* list, double-click a call entry.
- In the *Communications* window, click the **Call**, **Call from Phone**, or **Video** button.
- When viewing a contact’s profile, click the **Call**, **Call from Phone**, or **Video** button.

**NOTE:** If dialing a phone number that requires additional dual-tone multi-frequency (DTMF) tones (for example, a conference bridge), you can type the numbers on your keyboard while the *Communications* window has focus or open the dial pad in the *Communications* window.

## 2.9 Share Your Application or Desktop

Share your desktop by following these steps:

- 1) Click the **Start Sharing** button in the bottom of the *Communications* window (if share panel is not visible). The Share button is visible by default in My Room also. This button is available when your service provider has enabled share on your account. The share selector window opens.
- 2) Select the application to share or the entire screen of a particular display and click the **Start Sharing** button.

In addition, participants can share when enabled by their service provider.

**NOTE:** To share your desktop, you must enter your web collaboration credentials in *Preferences* → *Credentials*, unless your service provider has automated provisioning in use. For more information, see section [21 Personal Identity Verification Support](#)

Communicator Desktop supports Personal Identity Verification (PIV) on Windows only. If you have a PIV card and the associated card reader is attached to your PC, you can log in to Communicator by only providing a PIN related to your PIV card.

Other Communicator functionality is not impacted.

Preferences. You can participate in desktop sharing sessions by another user even without having your own sharing credentials.

## 2.10 Active Communications

Active communications appear at the top of the *Contacts* list in the *Main* window (native desktop only). This area provides an easy view to see the people with whom you are communicating. By default starting in Release 20.1.0, the call window is shown in the *Active Communications* area in the *Main* window (where the call can be fully controlled in the desktop client). It reduces the number of communications windows; however, a separate call window can still be opened using an *Active Communications* menu. The following is also available in this area:

- Double-click an active communication item to bring this *Communications* window to focus if the call window is separately shown. If the call window is integrated, you can use a menu option to show it separately.
- See who has sent you a chat message, but only after you accept the chat session. Before the chat session is established, the chat items are not visible in active communications but a history badge is visible.
- End a call.
- Mute the microphone.
- Place a call on hold.
- Merge two calls or transfer by dragging and dropping calls onto each other.
- Transfer a call.
- Make conference calls.
- See call recordings.

- Park and retrieve calls.

As a service provider option in Release 20.2.0 and onwards, more buttons can be added to the active Communications area:

- Conference
- Call transfer
- Call park

When enabled, you can use the buttons for faster access to the services.

You can right-click the “More” icon of an active Communications item (icon with three dots) for additional options while a left click offers additional call management options for this call as well as other options when available.

## 2.11 My Room

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

If you assign a conference bridge to your profile in *Preferences* → *Credentials*, then in your room, you and your attendees can click the **Call** or **Video** button to have Communicator automatically dial in to the conference and enter the appropriate entry codes. Note, if your service provider has auto-provisioning enabled, then you cannot edit these details. If your service provider has silent dialing enabled, then you cannot hear any DTMF tones when dialing into My Room (the call is made automatically).

If a conference bridge is not specified, you cannot initiate a call in your room.

You can invite others to your room by dragging and dropping them from the Contacts list into the *My Room* tab. You can also use the right-click menu on the *My Room* icon in the top-right corner of the *Main* window or the *My Room* information area to copy an invitation link for guest users (people without Communicator). They can then click the link and join the meeting through a web browser. Guest users must be separately accepted for each session.

Contacts join your room by right-clicking your name on their Contact list and selecting *Join Room* or by an invitation you sent.

Email My Room Invitation menu results in working links for guest users only. Communicator users are recommended to use Copy My Room Invitation links; however, the links may not work in all applications as they were originally intended for Outlook.

### 2.11.1 Select Audio Devices

If you have multiple audio devices available for your microphone or speakers, select the preferred audio device before starting a call.

#### Windows

- 1) Click the Communicator logo in the *Main* window title bar.
- 2) Select *Preferences*.
- 3) Select *Audio*.
- 4) Set a playback device (speakers).
- 5) Set a recording device (microphone).
- 6) Click **OK**.

## **OS X**

- 1) Select *Communicator* from the main menu.
- 2) Select *Preferences*.
- 3) Select *Audio*.
- 4) Set a playback device (speakers).
- 5) Set a recording device (microphone).
- 6) Click **OK**.

If “Use default” is selected, then Communicator uses the default device set in the operating system preferences. For Windows, if “Default Communication Device” is defined, it is selected over the “Default Device”. If you are using headsets, you can also select a separate device than the headset for alerting incoming calls.

Note that on OS X it is recommended to disable “Use ambient noise reduction” in *System Preferences* to reduce echo.

## 3 Contacts

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Contacts are the people with whom you communicate and, in most cases, you see their presence and share your presence with them. There are three types of contacts:

- *Contacts* – Actual people with whom you communicate.
- *Conferences* – Audio or video conference bridges that you use to communicate with others. Silent dialing into the bridge also applies to these contacts if enabled by your service provider.
- *Groups* – Containers of contacts and/or conferences.

There is no hard coded limit on the number of contacts. The more contacts are added the more memory and processing is needed. The more contacts are added, the more difficult it is to find people without searching. Live search can be used instead of a very large local contact list while keeping memory and processing requirements to a minimum.

### 3.1 Add

When you sign in for the first time, there are no contacts on your contact list. Add a new contact at any time by selecting the *Add Contact* item from the menu or choose the **Add Contact** button from the Main window.

In the *Add Contact* dialog box, enter the contact's information and then click **Add Contact**. By default, your presence information is always shared with a new contact if an Extensible Messaging and Presence Protocol (XMPP) address is provided.

If you are accepting contacts via a buddy request, you may see the contact card after accepting the buddy request, depending on the service provider settings. When receiving a buddy request, there are two buttons for accepting and rejecting the request. Dismissing the buddy request window only ignores the request for the duration of the login session. It reappears after the next login.

However, you can always share your presence information later by selecting *Subscribe* on the right-click menu for a specific contact in the contact / directory list. Note that the contact must accept your subscription request for you to establish the presence relationship successfully.

The newly added contact appears on your contact list.

Add a conference contact by clicking the same button you did for *Add Contact* and choosing the *Add Conference* menu option. A conference contact is a special contact used for conference bridges to avoid remembering PIN codes and conference number, for example, recurring conferences. Just create a contact for the weekly conference, add a conference bridge number and PIN, and join the conference just by right-clicking the contact or choosing it and clicking the **Call** button.

Choose the *Add Group* menu option to add a new group to the contact list.

Contact card telephone number fields can also have SIP URIs (work, mobile, extension, personal, and conference bridge). Release 21.5.0 introduced support for additional contact card fields.

## 3.2 Edit

Edit a contact by selecting the contact first. After you select the contact, right-click anywhere in the area of the selected contact and a menu of options appears which allows you to either view or edit the contact profile. In *View* mode, click the **Edit** button to go to *Edit* mode. This base principle is the same for normal contacts, conference contacts, and groups. Note that depending on your service provider settings all or no contact card fields may be editable. Depending on your service provider settings, you may also see a button for synchronizing the contact card with the Telephony Directory or the synchronization may take place automatically (native desktop only). When the manual synchronization button (cloud icon) is visible, there is no automated syncing of the contact card details with server information. To synchronize the contact card data, click on the cloud icon.

- *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. To re-establish the presence relationship, select *Subscribe*. An unsubscribed contact remains on the contact list and is always shown without an icon. Any contact that is not presence-enabled is shown in the same way.
- *Delete contact* removes the contact from your contact list.
- *View Profile* opens the *Contact Information* dialog box where you can add, edit, or remove information. This works for both normal and conference contacts.
- For groups, choose the *Edit* menu option to rename a group.

Once done with all changes, click the **Save** button.

## 3.3 Filters

You can filter contacts in two ways:

- Use the *filter* field to search by contact name. The contact list is filtered in real time as you type.
- Alternatively, use the filter menus available by right-clicking the *Contacts* icon in the left pane to display only specific types of contacts such as online contacts (native desktop only). You can also sort contacts based on first or last name or choose whether to display the contact's avatar and availability status in the contact list.












Favorite filtering works slightly differently in Release 21.2.0 and later:

- When you make a contact your favorite, the favorite group shows on top of the contact list and cannot be hidden.
- When you delete all your favorite contacts, the favorite group does not show anywhere.
- When you have even one favorite marked, you see the group.

## 4 Presence

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

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

Icon	What it means
	The green presence icon indicates that the user is online and ready for communication.
	The yellow presence icon indicates that the user is online but has been idle or away from their computer for more than ten minutes.
	The red presence icon indicates that the user is busy and does not want to be disturbed.
	The grey presence icon indicates that the user is offline and the only available contact method is calling or chatting.
	The question mark indicates that a subscription is pending and the contact has not yet approved sharing their presence.
	This icon indicates that the contact is busy due to a call. This is an automated presence status.
	This icon indicates that the contact is busy due to a meeting. This is an automated presence status. The <i>Busy – In Call</i> status overrides the <i>Busy – In Meeting</i> status so this one is only seen if there is a meeting but no call.
	This icon indicates that the contact is only available on mobile Communicator.
	This icon indicates that the contact is only available on a compatible desktop phone, and not Communicator.
	This icon indicates that only the mobile client is online and in the away status. This was a Preview feature in Release 21.5.0.
	This icon indicates that the user is in a call but is not logged in to XMPP (presence and chat). This was a Preview feature in Release 21.5.0.

The avatar in this version is not completely in real time. The avatars are retrieved at login, when the contact is added, and when the contact comes online. Double-click the avatar to change it. A File Explorer view opens.

If you see an error message at the top of the *Main* window “XMPP Unavailable”, it means that the XMPP connectivity has been lost for chat and presence; however, you can still make calls. You should contact your service provider.

Have the Outlook calendar automatically change your presence to *Busy – In Meeting* by enabling this in the *Preferences* → *General* tab (native desktop only).

The presence update is only triggered by appointments and meetings that are in the *Show me as busy* state.

The XMPP address of a contact cannot be changed. Instead, you must delete the old contact and create a new one.

Location in presence is done based on the IP address that the machine is using. The IP address is mapped to a physical location. BroadSoft is working with the mapping provider to improve the accuracy of the location. Change the location manually by clicking the avatar (if presence controls are not already expanded) and then the location icon to go to the manual location and change the view.

Snapshot of presence status is also available in search results and Communications window for contacts who are not buddies. This presence status is not updated after the search is done or after the communication session is set up.

## 5 Chat

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### 5.1 Chat View

When you initiate a chat, the *Chat* tab inside the *Main* window opens. Chatting with a contact is possible only when you are both online. If your contact initiates a chat, you see a pop-up notification in the bottom right-hand corner of the screen. If you close the *Chat* tab and open it again, sent chat messages are shown in the tab as chat history. When enabled by your service provider, a typing notification is also shown.

When the chat opens, you see the contact's information at the top of the screen..

At the top of the message area, there are four links: Yesterday, Last week, Last month, and All history. From these links, you can load history from your local storage and different time frames. You can delete the history using the drop-down menu.

In the text field, you can add a smiley emoticon. Smiley emoticons can also be added by manually entering the corresponding characters that represent that particular emoticon. You can send text by pressing **ENTER**.

Emojis are also supported and are rendered as ordinary emoticons when received.

To enter a line break in the *text* field, you can use the following key commands:

- CTRL+ENTER (COMMAND+ENTER on Mac)
- SHIFT+ENTER
- ALT+ENTER

Use either one of the short commands, CTRL+C or CTRL+V, or right-click the selection for a menu to copy or paste the text to or from the *Chat* tab.

It is also possible to chat with users in other domains. BroadCloud also supports Google federation. Group chat is not supported in Google federation, so the group chat option with these contacts is shown in grey.

All sent and received chats are stored locally in the chat history and an optional message history feature provides multi-device enhancements so that messages sent or received in other own devices would also be shown.

### 5.2 File Transfer

File transfer functionality is accessible only through the *Chat* tab.

- 1) To open the *File Selection* dialog box, click the **Send File** button located to the side of the text field.
- 2) Select the file to be sent from the dialog and then click **Open**. You can also drag and drop a file into the *Chat* tab.
- 3) Once the file offer is issued and during its transfer, you can cancel the transfer (at any time) by clicking **Cancel**.
- 4) Accept an incoming file transfer by clicking the **Accept** button.
- 5) Reject the file transfer offer by clicking the **Decline** button.

After the file transfer has completed, the received files can be opened or viewed in the file manager by using the *File received*, *click to open*, and *Show in folder* links.

In error situations, partially received files are not deleted automatically.

### 5.3 Group Chat

Start a group chat by “multi-selecting” and right-clicking the *Main* window contact list. More people can be added later to the chat by “drag and drop”. Only the owner can add more participants. Depending on your service provider settings, the right-click menu items may differ. Newer group chat deployments only have the My Room right-click menu item available for calls.

A group chat works the same way as a one-to-one chat in a tabbed view. 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 or a contact that is not on a device that supports group chat. This does not affect the group chat in any way.

A group chat history is saved both in My Room and in ad hoc chat rooms and is available to view later in the *Messages* tab of the Main window.

In the *text* field, the contacts’ names appear in different colors to easily distinguish between who is writing.

Only the newest chat room messages are stored on the server. One-to-one chat messages are only saved locally. When the optional *Message History* feature is enabled by your service provider, messages sent from your other devices are also shown.

Deleting a chat room is not supported.

Chat rooms can be moderated by the owner. Use the right-click menu options to remove a participant from your chat room. If needed, the removed participant can join later. The removal also applies to desktop share sessions.

Typing notifications are not supported in group chats.





Release 21.5.0 introduced support for receiving group messages sent from UC-One Connect.

### 5.4 Chat Recording

Chats can also be recorded as a service provider option (native desktop only). In this case, the client shows a recording indicator. Note that there are no end-user controls for chat recording.

## 6 Audio and Video Calls

The following table describes additional *Communications* window icons and explains what you can do with them, for voice and video calls.

Icon	What you can do
	Enter additional digits using the dial pad at any time during the call (for example, to insert a conference number). The dial pad is not movable.
	Mute your microphone by clicking the mute icon.
	Adjust the volume bar to adjust the volume. Dragging it all the way to the left mutes your speakers.
	Use this icon to access the <i>Call Options</i> menu. In the <i>Call Options</i> menu, you can find different actions to use for a call depending on your settings and your service provider.

In the *Options* menu, there are the following options:

- Transfer a call to a third party (native desktop only).
- Put the call on hold. Note that if you hold the call, the other party cannot “unhold”. This freezes a video call to the last frame of the video feed. In both voice and video calls, this is communicated to all parties by a notification appearing in the middle of the screen.
- Hide or show your own video.
- Add participants to the call (native desktop only).

As an alternative, in general available Feature Access Codes (FACs) for call management work during calls, for instance \*55 for direct transfer to voice mail, but the ongoing call must be put on hold and a new call must be made to the FAC “number”. Using DTMF for the same purpose does not work.

When establishing a call to a contact, you can choose several ways to call. Select the contact you wish to call and press the *Call* icon. This calls the default number. If you right-click on the contact you wish to call, you can choose the number to call from a right-click menu. There can be several phone numbers available in the menu. The work phone is the default and top most number is followed by mobile and other numbers. This also applies to the transfer and conference windows. However, in certain cases the transfer/conference default number can differ from other call options in other menus.

The default call type can also be selected using accessibility menus (Calls → Dialing service). This controls the default call type when using call buttons.

Dial a number or SIP URI of format user@domain or sip:user@domain in the combined *Search and Dial* field to make a call (native desktop only). Once you type your numbers, Communicator searches for contacts on both the local contact list and the enterprise directory.

You can also call circuit-switched network numbers such as Global System for Mobile Communications (GSM); however, this depends on the service provider network you are using; there is no technical limitation.

Choose your video size from the *Preferences* and the *Video* tab. Your selection is used by default for future video calls. The available sizes are automatically presented based on your camera.

You cannot have two simultaneous calls with the same person.

Communicator will not add video to an audio call without end user consent. This also applies to blind video call transfer cases where audio-only music on hold is utilized; this may result in the transferred call being reduced to audio.

## 6.1 Call From Computer

Select a contact from your contact list to start communication and click the desired communication button. Type a phone number in the *Search and Dial* field at the top of Communicator window (search or communicate) to communicate with someone who is not on your contact list.

## 6.2 Call From Phone

The second option to communicate in the row of communication buttons is the **Call from Phone**. When you click this button, the desk phone instantly starts ringing and the call is established from your desk phone. This depends on your service provider configuration as other devices may also ring.

When your service provider is configured to also initiate a call from computer (SIP call) to the same machine that initiated a call from phone, that incoming (SIP) call will be accepted and will alert if it does not have the same identity as the call from phone.

For remote calls initiated using Communicator, you can also have mid-call controls such as hold/resume, transfer, and add participant.

Automatic *Busy – In Call* presence also works with the Call from Phone feature.

Depending on your service provider settings, it is also possible to control calls initiated without Communicator in the *Active Communications* view. The same mid-call controls are also available in this case. In case of an incoming call, the actual answering action must happen with the other device.

## 6.3 Answer Call

When someone is calling you, you see a pop-up notification on your screen. You can choose to answer, silence the incoming call, and then open a chat session with the caller, reject the call, or silence the incoming call by closing the pop-up notification window. If you silence the call, the ringtone is silenced but the caller does not see anything on their end. You can answer or reject the call after silencing it only if you have chosen the chat option. If you close the incoming call pop-up notification to silence an incoming call, then you do not have an option to answer or reject it any more. When choosing the chat option, chat is only enabled after the call has been answered or rejected.

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

When someone is calling you with a video, you see the same pop-up notification; however, the options are answer with video, answer as voice only, silence and chat, reject, or silence (by closing the pop-up window). If you decide to answer as voice only, the call is voice only.

## 6.4 Contact Name Lookup for Incoming Calls

Communicator performs a local contact search for incoming calls. If the number matches one of the contacts on the Communicator contact list, the name is shown on the incoming call screen along with the alert. Both the display name and phone number are shown when available.

If there is no match to a local contact, Communicator looks for a match in the Telephony Directory and other available directories, and if a match is found, the available information is shown for the incoming call. If there is no match in the Telephony Directory, the display name is taken from the available information in the incoming call.

Whenever you retrieve your call logs/history, Communicator does a lookup in the local contacts and populates the name if a match is found.

## 6.5 Missed Call or Communication

When you have one or more missed calls or other types of communications, there is a notification on the left-hand side of the navigation pane in the Main window. Clicking the icon takes you to the missed communication in the *Communications History* view.

## 6.6 Full Screen in Video Call

Full screen mode can be activated by clicking the **Full Screen** button or by double-clicking anywhere on a video.

Exiting full screen mode is done by pressing the **Esc** key (on both Windows and OS X) or by double-clicking the window. Exiting full screen makes the video call go back to its original state (even if there was resizing of the window previously before going full screen).

In a full-size window, you can see a similar *Options* menu at the top. It has the same functionality as it does in the normal view. When you move the mouse, the top bar and lower communication buttons appear on top of the video.

## 6.7 Multiparty Sessions

You can have many participants in a call, either in a *My Room* or in an ad hoc multiparty call (native desktop only). Add more participants by dragging and dropping them on to the *Communications* window or by selecting the Conference menu item via the *Communications* window menu button. By choosing the menu item, you can also add participants with just a telephone number.

In contrast to using *My Room*, which uses your permanent chat and collaboration rooms and conference bridge, you can start ad hoc multiparty sessions by either selecting multiple contacts on the contact list and starting a chat, by calling them, or by expanding a one-to-one session into a multiparty session by dragging and dropping a contact into the *Communications* window. In an ad hoc session, the room used is a temporary one that is deleted once the session ends (that is, when the last participant leaves). Voice conferencing does not use a bridge but instead uses the Reynwood N-Way Calling supplementary service in a sequential fashion. Communicator dials out to all participants and takes everyone off hold after the last attendee answers.

In newer deployments with the Video Server (UVS), the ad hoc room created for the session has a limited lifetime and becomes inactive when idle for too long. In this case, participants are able to rejoin the ad hoc session if they drop out for some reason. A consequence of this is that, in ad hoc group calls, participants who are no longer in the call are still visible in the participant list.

If the XMPP service is not available, then ad hoc multiparty calls are not available.

## 6.8 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.

## 6.9 Call Transfer

Blind call transfer is available in the *Communications* window; choose the Transfer Call menu item to transfer the call to someone else (native desktop only). Attended call transfer is also available in the same window, first call someone to check if the called party can take the incoming call and then transfer the incoming call to the desired called party.

## 6.10 Message Waiting Indication and Visual Voice Mail (Preview)

Depending on your service provider settings, you can have either Visual Voice Mail (preview feature) or Message Waiting Indication (MWI) view in your client.

The MWI service allows you to receive a notification for a waiting voice mail or video mail. By clicking on the message icon in the upper part of the Main window, Communicator calls the predefined mailbox number to allow the user to listen to the voice mail or view the video mail. With this view, you only have two history tabs: one for calls and another for chat.

It is also possible to call voice mail from the dialer by long pressing the “1” icon in the dialer.

When visual voice mail is enabled, a third tab is available, showing visual voice mails. Click on individual mails to listen to them. Video mail is supported as a preview feature if enabled by your service provider.

Missed calls are indicated by an icon in the *Main* window. Missed video and audio calls are indicated with a different icon. Note that the MWI icon is in the same place when it indicates a new voice mail.

Visual voice mail is also supported when enabled by your service provider. You can see all voice mails in a list and play them inside the *Main* window.

The following settings are needed on CommPilot portal to have visual voice mail:

- Voice messaging enabled
- “When message arrives, use unified messaging” option enabled
- “Use Phone Message Waiting Indicator” option enabled

## 6.11 Call Park and Retrieve

Call Park is particularly suited for shared environments where one person can answer the call, park it, do something else for a while and continue the call from another device or let somebody else continue the call (supported on native desktop only).

Transfer an ongoing VoIP call to a Call Park server and then retrieve it when needed. An ongoing call can be parked against your own number or another number (an extension). Call Retrieval works in the same way, the parked call can be retrieved from your own number (an extension) or another number (an extension) to provide flexibility for who is picking up the parked call.

A parked call is visible on your desktop in the Active Communications area so that you can easily retrieve it, but only for the duration of the Reynwood Call Park announcement. After the announcement is over, the parked call disappears from the Active Communications area (since the triggering call is disconnected). After the call disappears from the Active Communications area, the user must remember the extension to which the call has been parked to retrieve it using the Main window menu (or feature access code), unless the call was parked to the one's "own" extension. If the call is not retrieved after a certain time, then the server calls the parking user.

## 6.12 Call Pull

Call Pull allows you to pull an ongoing call from one of your devices to another one where the Call Pull feature is used (native desktop only). Call Pull can also be used with Feature Access Codes (FACs), in this case, \*11. In this release, user interface support has been added to the desktop so that an end user does not have to remember FACs.

## 6.13 Call Recording Controls

You can use call recording controls in this release (native desktop only). Depending on your service provider's configuration, call recording can be initiated when a call starts or dynamically during a call (and start, stop, pause controls may be available). Additionally, there is an audio indication that call recording is ongoing as well as a visual indication. Feature Access Codes can also be used to control call recording when enabled in the configuration.

Recorded calls are accessed outside of Communicator; that is, you cannot view them using the client.

Depending on your service settings, call recording behavior is one of the following (this cannot be controlled in the client but in the self-provisioning portal):

- Always – recording indication (icon) in the *Communications* window as well as the *Active Communications* user interface (UI).
- Always with pause/resume – recording indication (icon) in the *Communications* window as well as in the *Active Communications* UI (only pause/resume menus available).
- On demand – recording indication (icon) in the *Communications* window as well as the *Active Communications* UI (no stop menu available, only start and pause/resume). After a call is established, call recording starts on the server. If the user presses the **Start Recording** button during the call, the call recording is stored and the server keeps the recording of the whole call regardless of when the recording was started (except for pauses). Otherwise, if no start recording is initiated from the user, the call recording is deleted from the server.
- On demand with user-initiated start – recording indication (icon) in the *Communications* window as well as the *Active Communications* UI (menu options available for start, stop, and pause). Call recording can be initiated at any time and several times during a call. There are separate call recordings for each call recording startup.
- Never – no indicators or menu options present.

Pause/resume audio indication depends on your service provider settings. It is recommended to log back in after changing the call recording mode in the self-provisioning portal.

## 6.14 Moderator Controls

You can control the functionality available to participants if you are the owner of the session in My Room. You can do the following:

- Dismiss one or more participants. This ends all sessions (group chat, audio, video, and share) when the participant is using Communicator for Desktop.
- Mute one or more participants.
- Lock or unlock the room (when locked, no additional participants can join).
- See active talker indication.
- See full audio participant list.

To invoke the features, you can use the right-click menus or you can click on the moderator control icons of a participant. Note that most features are not available via icons. To dismiss or mute all participants or lock the room, use the right-click menus available for your own icon at the top of the participant list.

If you are not the owner, you can only see the XMPP (chat) participant list or the full participant list along with mobile participants (depending on your service provider settings).

## 6.15 Forced Logout

Depending on your service provider settings, you may see a pop-up saying that you have been logged out due to another instance of the client logging in (native desktop only). This feature allows Reynwood to track similar online client instances and only allow one of them to be online at the same time. When Reynwood notifies the client to log out, all connections are terminated and client returns to the login window.

## 6.16 Echo (Test) Service

Use this *Main* window menu option to make a test call to verify voice and video quality. The echo service asks you to record a message and plays that message back immediately before hanging up. The echo service may be available in different languages depending on your service provider settings.

## 6.17 Headset Support

You can control incoming and ongoing calls from a compatible headset. The feature set supported is answer/hang up as well as mute/unmute. Volume control operations are not reflected in the Communicator UI. The following is a list of tested example devices, although other devices should also work:

- Plantronics Voyager Edge UC
- Plantronics Savi 700 series
- Plantronics Blackwire C3xx, C4xx, C5xx, and C7xx
- Plantronics Calisto 620
- Plantronics Voyager Legend UC
- Logitech H570e Mono
- Logitech BCC950
- Logitech Conference Cam Connect
- Jabra Biz 2300/2400
- Jabra Speak 510

- Jabra Pro 930 (wireless)
- Sennheiser SC 230/260
- Sennheiser SP 20
- Sennheiser MB Pro1 UC

Headsets typically use an add-in of some kind to communicate with the rest of the client while calls are made. Currently, installed add-ins are visible in the *Preferences Add-ins* tab.

In addition to the standard HID add-in developed by BroadSoft, headset vendors may develop their own add-ins that will replace the standard HID add-in for all devices. Some of these add-ins (for instance Jabra) cannot be used at the same time with the standard HID add-in. These vendor-specific add-ins would be installed during new headset installation; however, the standard HID add-in should remain in the preferences list. If for some reason it has disappeared, adding the respective *.dll* file back to the add-in folder should make it visible again in the preferences. If later on you would like to change to another headset, the vendor-specific add-in could be disabled from preferences to again use the standard HID or some other new add-in by another headset provider.

The following is the default add-in folder location (note that it is not possible to write to this location in all systems):

- Windows 7/Windows 8/8.1/10: C:\Program Files (x86)\BroadSoft\UC-One\connectors

## 6.18 Team Telephony

Team telephony is comprised of a team telephony window showing the predefined team members and their related call states (native desktop only). For a ringing call, the only action is to pick it up.

Each team telephony member can have four call states: *available*, *busy in call*, *ringing*, and *offline*. The status for a team telephony member is shown in the team telephony window. When a line is ringing, you can see the caller ID in the respective lines tooltip if configured by your service provider. All team members can see the full list of team members in the team telephony window. A double-click on the team member performs the default action towards the contact. You can drag and drop people from the contact list to the team telephony window or vice versa to transfer or conference calls.

The corresponding server side service must be provisioned and assigned by the service provider for the client to work. Usual call management options are available once the call has been answered.

## 6.19 Executive-Assistant

The Executive-Assistant service allows an assistant to operate on behalf of an executive to screen calls, answer calls, and place calls as the “executive” (the caller ID is the one of the executive) (native desktop only). The provisioning of the executive and assistant roles takes place on the server side and cannot be modified on the client.

One assistant can have many executives and it is possible to:

- Select the desired role when making a call using a pull down menu in the *Main* window.
- Answer an incoming call on behalf of an executive and then push the call to the executive. The incoming call is presented as a call to the executive. In addition, all the usual call management options are available.
- See that an incoming call is actually for the executive.

The caller ID format is dependent on your service provider settings and cannot be changed on the client side.

## 6.20 Presence Rules and Silent Alerting

Starting with Release 21.2.0, you can combine call processing with presence statuses (native desktop only). For instance, the “Busy” status can be combined with call forwarding so that when the “Busy” presence status is used, calls are forwarded. It does not matter how the presence status is invoked, via automation or manually.

All presence statuses can have presence rules:

- Available
- Busy
- Away
- Offline

The following Reynwood call processing services can be used:

- Silent alerting
- Call forwarding to number
- No rules

If presence rules are used, all your client devices should have this service enabled to avoid side effects. Silent Alerting is supported whenever an incoming call has that feature enabled. Silent alerting can only be enabled via presence rules in Communicator but various settings can also be altered via web provisioning.

## 6.21 Call Center Agent Login

Starting with Release 21.2.0, you can also log in to your call center queues if you are a call center agent (native desktop only). You can do the following:

- View your call queues.
- Join your call queues.
- Set the Automatic Call Distribution (ACD) status so that you get incoming call center calls. However, this is dependent on your license settings.

With suitable ACD status such as “Available”, incoming calls to the queue are routed to your client. With “Unavailable” ACD status, the Reynwood Do Not Disturb (DND) state can also be selected or “Personal Call”. Each ACD status indicates with text if you are to receive incoming call center calls.

Dynamic ACD status updates are not supported if the ACD status is changed somewhere else.

## 6.22 Remote Control Event Package

Remote Control allows you to answer a call or put it on hold from a receptionist or call center client while the results are seen in your Communicator desktop client. Answer and hold/resume buttons are visible in Receptionist/thin client to perform call management operations.

This feature must be enabled by your service provider for it to be used.

### **6.23 Auto-Answer**

Release 21.5.0 introduced support for auto-answering incoming SIP calls for call center scenarios. The incoming call notification is identical to the usual incoming call notification.

### **6.24 Web Pop**

Starting with Desktop Release 21.6.0, web pop allows you to get more information about an incoming call by clicking on the web pop button of the incoming call toaster. You can also do the same for outgoing calls using menus.

This opens your default web browser with a predefined URL that provides more information about the other party.

You can also change this URL in *Preferences*, if allowed by the service provider.

This feature is not available for Team Telephony or the assistant in Executive-Assistant calls.

### **6.25 Hide Communications Window notifications and Tones**

Depending on your service provider settings, Communicator notifications and tones in the communications window can be hidden.

## 7 Application or Desktop Share

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To share your desktop or individual application:

- 1) In the *Communications* tab, click the **Start Share** button. This does not yet start the “share”.
- 2) Select either to share your entire display or one of your open applications and click **Start Sharing**.

The share widget appears to let you control share settings such as **Preview** that shows you what participants are seeing and **Pause** that pauses sharing.

- 3) To stop sharing, click the **Stop** icon. While sharing, all other communications mechanisms are also available except for video calling and file transfer. Participants cannot hide a share without closing the *Communications* window. Video call is also available while sharing.

Desktop sharing works the same way in both My Room and in ad hoc sessions. For participants without Communicator, use the separate Desktop Share Invitation link, if available, by right-clicking the **My Room** button. Share selector is not dynamically updated while the selector is open and minimized applications are not available in the list of applications to share.

If you are first in a video call and then start share, your own video is not shown due to limited space available, but you can make it visible using the *Main* window menu in the bottom right-hand corner by selecting “Show Own Video”.

If you are using dual monitors, you can choose which monitor to share. You can check the primary monitor in the operating system settings.

You can also remove desktop share participants. They are also removed from the group chat at the same time. If needed, the removed participants can join later.

Depending on your service provider settings, you may have to provide desktop share credentials manually.

In addition, participants can share when enabled by the service provider by clicking on the *Share* button; however, the room owner can prevent this at any time. Only one person can share at any one time in a session. Only one share at a time is supported if you have sessions with many users at the same time. Share passing is only supported in My Room.

Participants do not have to take any action to accept share invitation. It is automatically accepted. The same also applies to share passing. That is, the owner does not have to take action for participant to start sharing.

## 8 My Room

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*My Room* is started by clicking on the **My Room** icon on the top right-hand side of the *Main* window. *My Room* is started automatically using your permanent chat room. Add more participants by dragging and dropping them into the *Communications* tab or the *Conference* menu. Otherwise, they can join your room by right-clicking your name on their contact list and choosing the *Join Room* menu option. Once people have joined the chat room, they can click on the **Call** button of that window to join the conference. The room owner can also share their desktop.

To use the full functionality of *My Room* (desktop sharing, conferencing, and chat combined), you may have to manually enter your desktop sharing credentials, your conferencing number, and your PIN in the *Preferences* → *Credentials* window. This depends on your service provider settings.

In addition to the owner of the room, participants can also share the desktop but only the owner can add more participants. This applies to both *My Room* and ad hoc sessions.

- 1) To see a Context menu, right-click the **My Room** icon on the left-hand side of the navigation pane (native desktop only).
- 2) To modify credentials and conference bridge information, select *Configure* to go to the preferences. If your service provider has automatic provisioning enabled, then this menu item is not present.
- 3) Select *My Room Invitation* to copy an invitation link to the operating system clipboard (depending on your service provider setup, this menu option may not be available). Paste this link, for instance, to meeting invitation e-mails to allow Communicator participants to join the conference in one click from, for example, Outlook, or Office applications. Note that some applications may not recognize the Communicator link. You can also copy the *My Room Invitation* to the default email client (this text does not contain the Communicator link) and go to the *My Room* preferences via a right-click menu option.

The link has two parts: one for Communicator users and another one for users with some other client. Depending on your service provider settings, the invitation can also contain a link to the desktop sharing session. The invitation always contains a dial-in number and PIN for users who do not have Communicator. The desktop share link, when available, allows anyone to join a desktop share session from a standard web browser. In addition, the Communicator group chat session is supported with the web collaboration session. For guest user links, see the next section.

The **My Room** icon also has a tooltip indicating the conference bridge details of your *My Room*.

The *Communications* window also has an icon that provides the same Context menu previously discussed.

For more information on desktop sharing, see section [6.24 Web Pop](#)

*Starting with* Desktop Release 21.6.0, web pop allows you to get more information about an incoming call by clicking on the web pop button of the incoming call toaster. You can also do the same for outgoing calls using menus.

This opens your default web browser with a predefined URL that provides more information about the other party.

You can also change this URL in *Preferences*, if allowed by the service provider.

This feature is not available for Team Telephony or the assistant in Executive-Assistant calls.

## 8.1 Hide Communications Window notifications and Tones

Depending on your service provider settings, Communicator notifications and tones in the communications window can be hidden.

Application or Desktop Share. Desktop sharing works the same way for both *My Room* and the ad hoc sessions.

My Room uses your permanent chat room, permanent collaboration room, and conference bridge (audio or video). My Room is the only way to use the permanent rooms. Any other multiparty communications, such as selecting multiple contacts, and right-clicking for a conference call, or dragging and dropping for a one-to-one chat, is done using ad hoc rooms. Ad hoc rooms are deleted once the session is over.

All My Room sessions start as chats but call and/or share can be added to the session while in progress. File transfer and video conferencing are not supported in My Room or ad hoc sessions.

## 8.2 Guest Client

Previously it was not possible to join a full My Room session with a web browser. Guest client allows you to do that.

This feature is especially intended for users outside of the company. Generate separate invitations for guest users using My Room right-click menu items as described in the previous section. My Room invitations are generated using separate menu items and are intended for Communicator users.

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

The invitations persist until reset via a separate right-click menu item. Individually accept each joining guest participant. Not doing this in a predefined period of time results in the invitation becoming obsolete and guests not being able to use the link to join.

After dismissing a guest user from share and chat, the audio/video portion can remain.

The following OS and browser combinations are supported if Web Real-Time Communication (WebRTC) is disabled by your service provider:

- Latest Chrome on Windows (Windows 7, Windows 8 [Classic], and Windows 8.1 [Classic]) and OS X (10.8 and 10.9)
- Internet Explorer 11 on Windows (Windows 7, Windows 8 [Classic], and Windows 8.1 [Classic])
- Safari 7 on OS X (10.8 and 10.9.)

The following OS and browser combinations are supported if WebRTC is enabled by your service provider:

- Latest Chrome on Windows (Windows 7, Windows 8 [Classic], and Windows 8.1 [Classic]) and OS X (10.8, 10.9, and 10.10)

For more information on guest client usage, see [Appendix B: Guest Client Usage](#).

## 9 Search

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Communicator supports a search of the enterprise directory as well as the personal directory, enterprise common directory, and group common directory. This takes place in the same *Search* field that is used for both a local and presence-enabled contact list search. The various directories have different purposes with the enterprise directory having the most data, and not all directories may be used in all deployments. All search results are combined into one common set of results.

Personal directory, enterprise common, and group common directories cannot be modified from the client side. Only read access is provided. A snapshot of the presence status of the contact in the results list is shown, but this presence is not updated after the search operation.

Personal directory provides your own special contacts that are not in the enterprise directory, for instance, partner company's numbers while group common contains, for example, the group's contacts such as favorite pizza taxi.

Communicator automatically searches the local contacts and presence-enabled contact list in addition to the enterprise and other directories at the same time. As soon as there are results from the enterprise and other directories, these results are shown on a separate list in the Main window. Additionally, there may be other search result groups from other search sources such as Lightweight Directory Access Protocol (LDAP) or Outlook (native desktop only).

Communicator also supports Hiragana characters in search for the Japanese market.

Search results are displayed differently depending on the results of the contact list and directory search:

- If LDAP search (Corporate directory) or Outlook search are enabled, there are more result groups.
- If there are no results for a certain search source (for example, local contacts, Outlook, LDAP, or Reynwood Telephony Directory), then that group is different in the UI.

The enterprise directory searches all available fields for the search string. By default, it waits for 1.5 seconds before it sends the search request to the server to minimize unnecessary load on the server.

Release 21.5.0 introduced support for showing phone number in the search results to better distinguish similar search results. In addition, tooltips are provided for search results.

Typically, when adding a contact using directory search results, there are phone numbers and first names in addition to last names available. In addition, the Extensible Messaging and Presence Protocol (XMPP) address and other fields are imported when found to allow presence and chat.

LDAP search (Corporate directory) needs to be enabled by your service provider. In addition, you must manually provide your LDAP credentials in the *Preferences* → *Security* tab. LDAP search results are provided in the corporate directory group in the search results.

Outlook integration (search and calendar integration) on Windows requires one of the following versions installed on the desktop:

- Outlook 2007
- Outlook 2010

- Outlook 2013
- Outlook 2016

Outlook search also works when several Outlook accounts are in use, but only one account is used at a time (default selected, which can be changed in Outlook). Additionally, other related considerations are as follows:

- The client searches for contacts and calendar entries in the default Outlook account. The account is set to the default via *File → Info (left pane) → Account Settings → Account Settings → Data Files*. Select an account and mark it as “Set as Default”. After making this change, sign out and sign back in to the client and it now searches that account for contacts and calendar entries.
- The client searches the Outlook contacts only on the local machine (that is, the *Outlook Address Book*). There is no Exchange server lookup performed. In addition, all directories in Outlook are searched for contacts, even deleted folders. The Contacts directory can also have multiple levels of subfolders.

Every minute, Communicator reads Outlook appointments. If there is an appointment running at the current time, then the presence is shown as *Busy – In Meeting*. Overlapping appointments are also handled. Following are some examples of Communicator operation with Outlook when time is 9:10 A.M.

- There is meeting “A” 9 A.M. through 10 A.M. Presence is shown as *Busy – In Meeting*.
- Presence is explicitly changed to *Available* at 9:15 A.M. Presence is shown as *Available*.
- In the next minute, Communicator again reads the appointments and sees that “A” meeting is running; however, the presence was already explicitly marked as *Available* and presence is not shown as *Busy – In Meeting* but *Available*.
- There is an overlapping meeting “B” 9:30 A.M. through 10:30 A.M. Presence is shown as *Busy – In Meeting* when the time is 9:30 A.M.

When deleting a meeting that is currently ongoing in Outlook, the presence status remains as *Busy – In Meeting* until the next time Outlook appointments are checked (once every minute) and after that, presence is shown as *Available*. This change may be instantaneous or it may take a minute depending on how close the timer is to being triggered.

The Outlook Object Security model was introduced in Outlook 2007. It has been tested with Outlook 2010 and Outlook 2007. For Outlook versions prior to 2007, the *Allow/Deny* pop-up window seen in previous releases should not be triggered. However, those versions are not officially supported. For Outlook 2013, the behavior should be similar to 2007 and 2010, meaning the pop-up should not come up with Outlook 2007, 2010, and 2013 in Release 20.0.0 and onwards. However, more tests are needed for this before official support for Outlook 2013 can be declared.

The presence 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 a presence change to *Busy – In Meeting*.

## 10 Full Enterprise Directory

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Communicator allows for browsing of an entire Reynwood enterprise directory.

To view the Reynwood enterprise directory, click the **Directory** button on the left-hand side of the navigation pane (if available). This feature depends on the service provider configuration so it may not be visible in all clients.

## 11 Communications History

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The fourth icon from the top in the *Main* window on the left-hand side of the navigation pane displays your messaging history. History view is divided into one, two, or three tabs depending on your service provider settings. Possible tabs are:

- Calls
- Chat
- Visual voice mail

Double-clicking a conversation on the chat tab list opens it in a new window while double-clicking a call history item calls that number. Clicking a visual voice mail downloads the message so you can play it.

Communicator saves a call history for placed, received, and missed calls. The call history makes it easy for you to redial and call back when you have missed a call or you want to easily dial a contact with whom you have recently spoken. Each call has a separate entry in the list.

Chat history for group chats, both in My Room and in instant group chat, are stored locally on the desktop client, just like in one-to-one chat, but only for the time the user is joined into the session.

Double-click on a name in the list to call back directly (this calls back the same way you previously spoke, for example, if you were in a video call, double-clicking starts a new video call). Double-clicking an incoming call item in the *Calls* tab makes a call.

To clear the missed chat indicator, you must open the missed chat.

The *Communication History* missed communications badges can be cleared by using the right-click menu from the **Communication History** button on the left pane (native desktop only). The menu provides options to mark “All as viewed”, “Chats as viewed”, “Voicemails as viewed”, and “Calls as viewed”.

Depending on your service provider configuration, call history may also display call duration as well as hunt group or other call forwarding information.

## **12 Click-to-Call (Highlight Text)**

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Release 21.5.0 of Communicator for Desktop introduced support for Click-to-Call using highlighted text and global keyboard shortcuts. Users can highlight text anywhere in the desktop machine to make a call and define the default call type used for making the call using the shortcut defined in *Preferences*. On OS X, you must define the shortcuts on your own using the instructions provided in *Preferences*. The order in which key combinations are pressed may be significant in some cases if the operating system has reserved some key combinations for other purposes.

## **13 Security Classification**

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Communicator supports security classifications, which are typically used in government deployments where users are divided into security clearance categories (native desktop only). The security classification is displayed based on the security classification of all session participants. The security classification is displayed in chat as well as audio and video calls. Security classification has to be set by your service provider; the client checks the assigned security classification at login.

For calls, the security classification can be changed during a call by a user and it works with supplementary services such as Call Transfer and Conference.

For chat, the security classification is displayed but cannot be changed.

## **14 XMPP Security**

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Depending on your service provider configuration, Communicator supports blocking of unauthorized file types in file transfer in order to support service provider IT policies (native desktop only). When sending a file with of an unauthorized type, there is an error message showing the cause of the file transfer failure.

Similarly, clickable links in chat may be disabled; however, you can still copy the link into a browser.

## 15 Outlook Add-in

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### 15.1 Introduction

The Outlook Add-in for Communicator provides integration between Communicator Desktop and Microsoft Outlook.

With this add-in, you can have Microsoft Outlook display Communicator contact presence and invoke Communicator functions like Chat, Call from Computer, Call from Phone, and Video Call from within Outlook.

### 15.2 Supported Platforms

The following platforms are supported:

- Microsoft Outlook 2007, Microsoft Outlook 2010 (32 and 64-bit), Microsoft Outlook 2013 (32 and 64-bit), and Microsoft Outlook 2016 (32 and 64-bit)
- Microsoft Windows 7, Microsoft Windows 8, Microsoft Windows 8.1 and Microsoft Windows 10
- Communicator Release 20.2.0.x or higher

**NOTE:** The current version of this add-in cannot be used if you have Microsoft Office Communicator, Microsoft Lync, or Skype installed. You must uninstall these products if you want to use this add-in.

During Office/Outlook 2013 installation, the installer installs Lync by default. You must uncheck Lync and then proceed with the installation. For more information, see section [29 Troubleshooting](#).

The following language and locale combinations are supported in the installer and the add-in:

- Chinese (Simplified)
- English
- French
- French (Canada)
- German
- Italian
- Japanese
- Korean
- Spanish
- Spanish (CALA)
- Dutch

The following third-party components must be installed for the add-in to function correctly:

- Microsoft .NET Framework 4 Client Profile
- Microsoft Visual Studio Tools for Office (VSTO) 2010 Runtime

These components will be downloaded and installed by the installer if they are not found. They should not be uninstalled, as the add-in will not functional correctly. Additionally, for Outlook 2016 and the OL2016 plugin, there are further considerations:

- OL2016 plugin can only be installed by an administrator.
- If an administrator installs for all users and a normal user starts using the OL2016 plugin, Communicator needs to start before Outlook.
- For logging to work normally, Communicator needs to start before Outlook.
- Every logging level change requires a restart of both Communicator and Outlook for changes to take effect. This should be quite rarely needed.
- If Outlook is closed while Communicator is running, Communicator needs to be restarted as well for the Outlook UI to behave as expected.
- Communicator lists connected components as extensions, if connected is NO or if component version number is something other than 10.2.1.29, or both presence GW and add-in are not listed, an error has occurred. Component is visible under *Options* → *Add-ins* → *UI*, which displays registered and working add-ins on top, below stopped or non-working ones.
- If both are listed and show connected is YES, but the Outlook UI does not work, restart both apps.
- For Outlook upgrade requirements, see section [15.5 Installation](#).

**NOTE:** Communicator must be installed with administrator privileges in C:\Program Files OR the C:\Program Files (x86) folder.

### 15.3 Log Files

Log files for the add-in are located in Communicator log directory. You can open the folder via Preferences → Advanced by clicking on the **Show logs** button. Outlook add-in logging is turned on when Communicator logging is enabled.

### 15.4 Windows Registry Entries

The following table lists all the registry entries added or modified by the installer.

Path	Key	Comment
HKEY_CURRENT_USER\Software\BroadSoft\Communicator\OutlookPlugin\olwnd	wnd	Keeps Outlook applications window reference
HKEY_CURRENT_USER\Software\BroadSoft\OutlookPlugin	LoggingLevel	Logging level for Outlook plugin components. Its value as per Communicator options → Advanced logging selection as follows: Basic logging on: 0x00000003 Detailed logging on: 0x00000005 Both off: 0x00000000
HKEY_CURRENT_USER\Software\BroadSoft\InstalledBrandedBTBC Can also exist in HKEY_LOCAL_MACHINE (even under Wow6432Node).	Example, OutlookPluginPath, CompanyName, ProductName	These keys affect where the plugin is searched for when starting and where log files are written.

Path	Key	Comment
HKEY_LOCAL_MACHINE\Software\Microsoft\Office\Outlook\Addins\Communicator Add-in for Outlook	LoadBehavior	0x00000003, based on this value Outlook loads the add-in dll.
HKEY_LOCAL_MACHINE\Software\Microsoft\Office\Outlook\Addins\Communicator Add-in for Outlook	Description	Communicator add-in for Outlook.
HKEY_LOCAL_MACHINE\Software\Microsoft\Office\Outlook\Addins\Communicator Add-in for Outlook	FriendlyName	Communicator add-in.
HKEY_LOCAL_MACHINE\Software\Microsoft\Office\Outlook\Addins\Communicator Add-in for Outlook	Manifest	\$INSTDIR\plugins\Outlook\$OutlookBitness\UC-Outlook-addin.vsto vstolocal
HKEY_CURRENT_USER\Software\IM Providers	DefaultIMApp	Communicator
HKEY_CURRENT_USER\Software\IM Providers\Communicator	UpAndRunning	0x00000002
HKEY_LOCAL_MACHINE\SOFTWARE\IM Providers\Communicator	FriendlyName	BroadsoftIMApp
HKEY_LOCAL_MACHINE\SOFTWARE\IM Providers\Communicator	GUID	{E3D1613A-93B2-4237-B4B8-B50595462C25}
HKEY_LOCAL_MACHINE\SOFTWARE\IM Providers\Communicator	ProcessName	<i>presencegw.exe</i>

## 15.5 Installation

Outlook Add-in installation is integrated with the Communicator installation. There is a checkbox in the installer to enable Outlook Add-in installation. If Outlook is upgraded, the Outlook Add-in must be re-installed, since the Add-in uses different files depending on the Outlook version.

## 15.6 Features

### 15.6.1 Presence in Outlook

The Outlook Add-in displays the presence of a contact in Outlook. Presence information is retrieved from Communicator and is displayed as an icon next to the contact in e-mails and calendar appointments. The following is an example of an e-mail with the *To*, *From*, and *Cc* fields showing presence for various contacts.

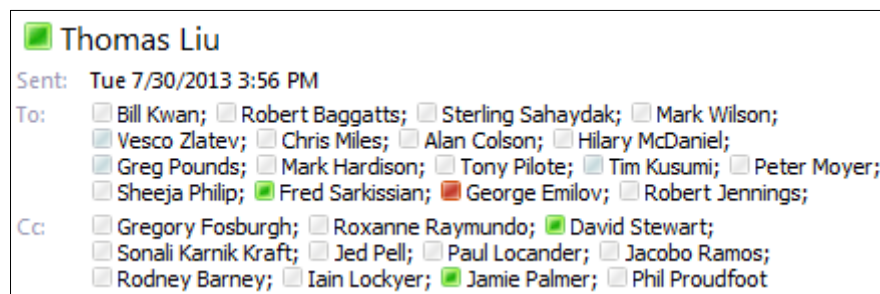


Figure 2 Presence Displayed in Outlook

A contact's presence can be Available, Away, Busy, or Offline as shown in the following figure.



Figure 3 Presence Values

**NOTE:** You must be signed in to Communicator for the presence to be displayed. Additionally, presence is only shown for contacts that have a valid SIP address and are in your contacts list in Communicator.

### 15.6.2 Contact Actions in Outlook

Right-click on an e-mail in your Inbox and call or chat with the sender using Communicator. You have the option to Chat, Call (from Computer), Call from Phone, or Video Call as shown in the following figure.

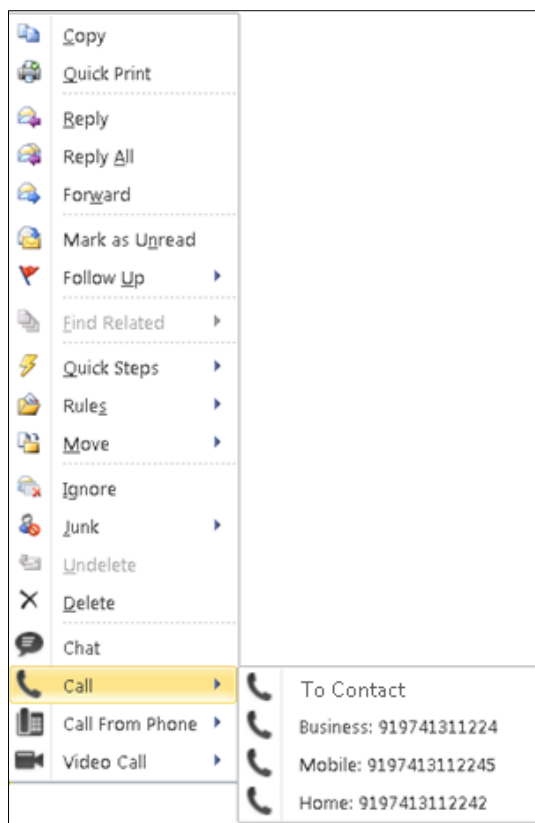


Figure 4 Contact Options

**NOTE:** Some of these options may not be available for all contacts. The chat option is only applicable to contacts that are in Communicator. Call options are applicable to all contacts as long as they have a valid phone number.

These contact actions are also available on a Contact Card as shown in the following figure.

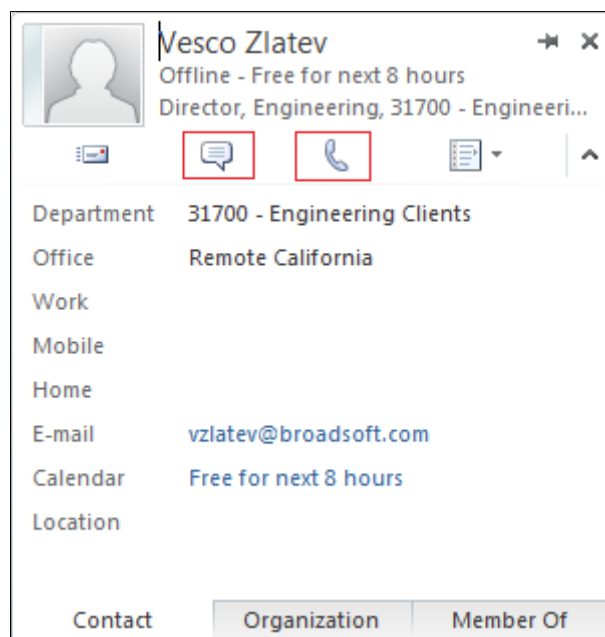


Figure 5 Contact Card

### 15.6.3 Call Multiple Phone Numbers Configured for Communicator / Non-Communicator Contacts

You can call any of the multiple phone numbers present in the Outlook contact card. This feature is available from received mail context menu, flagged mail context menu, and Contact's context menu. You can also call the selected phone number via Call, Call from Phone, and Video Call.

However, you cannot call multiple numbers for contacts stored on the UC-One client or contacts in LDAP (AD) directories; only numbers stored in Outlook.

See the following figure for an example of how to make the call from a received mail context menu.

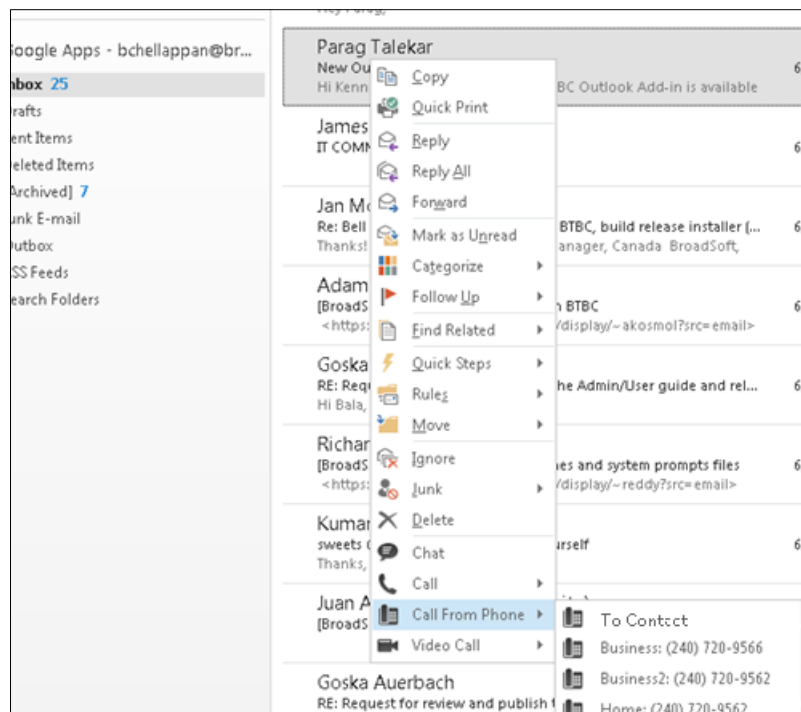


Figure 6 Received Mail Context Menu in Outlook

See the following figure for an example of how to make the call from the contact item context menu.

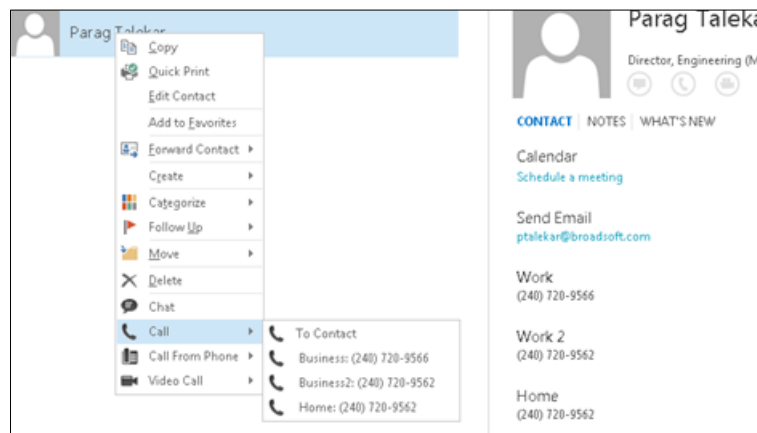


Figure 7 Contact Item Context Menu in Outlook

## 15.7 Uninstall Outlook Add-in for Communicator

Uninstallation is done together with uninstallation of Communicator.

## 15.8 End User Configuration

### 15.8.1 SIP Address in Microsoft Outlook Contacts

**NOTE:** This section is only applicable if you use Microsoft Exchange with Outlook. You do not need to configure the SIP address for SMTP-based accounts (for example, Google Mail).

In order for the Outlook Add-in to integrate with Communicator, you must set a SIP address for each contact. The SIP address for a contact in Outlook must match the SIP URI, Instant Messaging and Presence (IM&P) address, or *Email* field in Communicator. This is usually done by your Microsoft Exchange or Active Directory administrator.

You can check if a SIP address has been configured for contacts by looking at the Outlook properties for a contact. In Outlook 2010, open a Contact Card and then click on the View more options button as shown in the following figure.

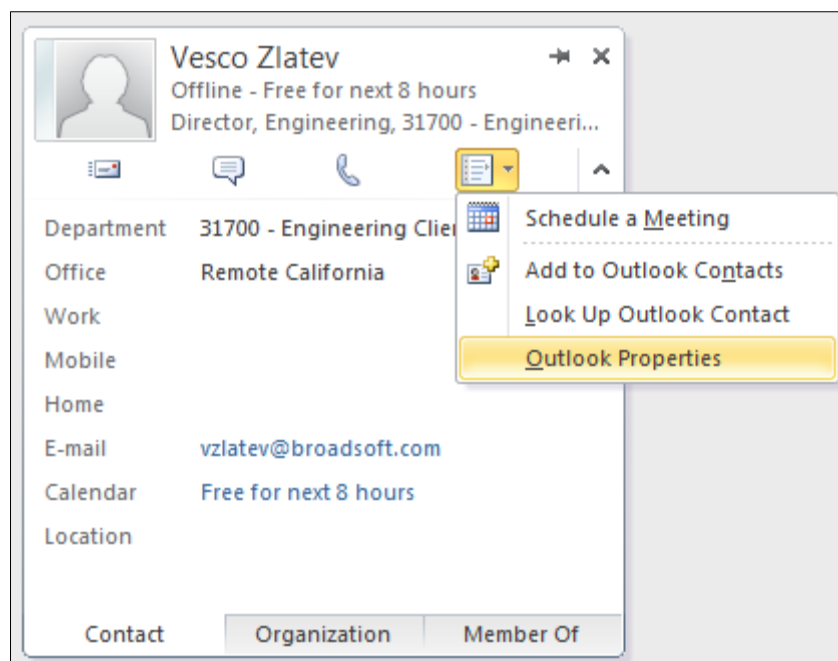


Figure 8 Outlook Contact Properties

Then select the *E-mail Addresses* tab. It should have a SIP address in the list of *E-mail addresses* as shown in the following figure.

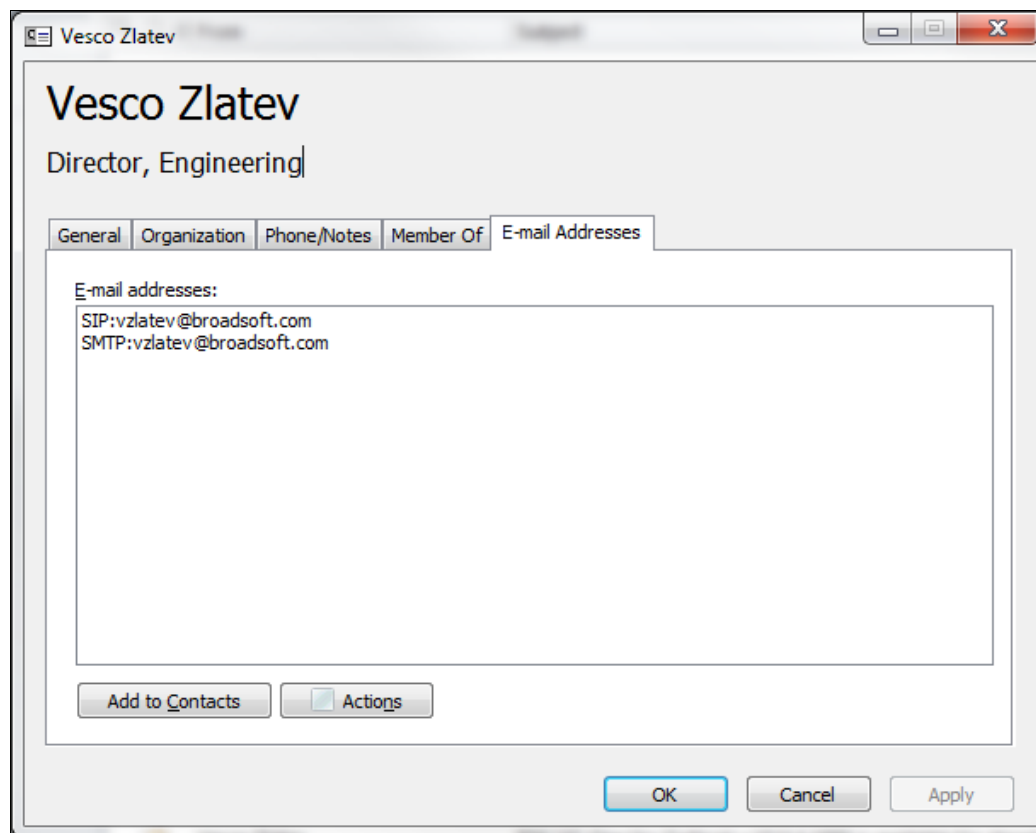


Figure 9 SIP Address for Outlook Contact

If the SIP address is missing, you can try to update the Address Book from the server as shown in the following figure.

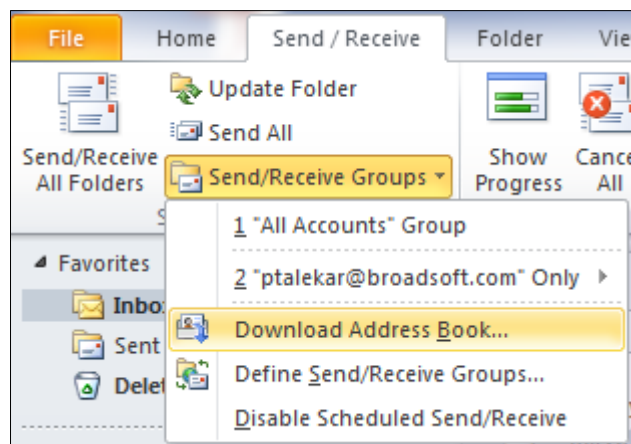


Figure 10 Download Address Book

Additionally, when adding contacts from Outlook to Communicator, the IM address field can be populated in Outlook so that the presence feature can work directly on the Communicator side as the information is imported to the Communicator contact card.

## **16 CC-One Integration**

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Communicator Desktop communications window can be invoked from CC-One. The exact appearance can be dictated by your service provider and in general UC-One can be hidden with some tones and notifications disabled.

## **17 UC-One Add-In for Microsoft Skype for Business**

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Communicator for Desktop supports integrating with Microsoft Skype for Business (S4B) (native desktop only). The intended main use case is using Communicator for non-S4B calls such as calls to mobile while presence, chat, and S4B-to-S4B calls still take place via S4B.

Existing S4B integration with, for example, SharePoint, Office 365, and Internet Explorer can be used so that calls can be made from those applications.

Usual Communicator call control features such as hang up, mute, transfer, conference, and Call Park are supported. Communicator call logs and call settings are also available in this configuration.

Communicator also updates phone presence on the S4B side.

Communicator must be started after S4B for calling to work smoothly.

For detailed calling examples, see [Appendix C: Skype for Business Integration](#). For a general overview of this feature, see the *UC-One Add-in for Microsoft S4B Product Guide*.

## 18 Emergency Calls

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Depending on your service provider configuration, a number of options are possible:

- Emergency Call Address Change Service (ECACS) is enabled.
- Emergency calls are disabled.
- Banner utilized for conveying your emergency call location.
- Login dialog shown at login to inform you about your service provider's emergency call procedures.

### 18.1 Emergency Call Address Change Service

Depending on service provider settings, a special dialog can be shown at login, asking if the (physical) address needs to be updated (native desktop only). If not, login proceeds normally. If the user replies "yes", a web browser opens with the possibility to update the physical address for emergency calls. Once the address update is complete, login continues.

Depending on service provider settings, a separate ECACS menu item may also be visible in the *Main* window. This menu item allows ECACS to be invoked at any time after login.

## **19 Password Change**

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A dialog box automatically opens when your login password must be changed (native desktop only). You must provide the password two times for verification purposes. Using a menu in either the bottom right-hand corner or the top of the *Main* window, your password can be changed at any time.

## 20 Accessibility Compliance

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Communicator supports accessibility compliance starting in Release 21.3.0 by having all client features available in menus at the top of the *Main* window (native desktop only). The menu items are also available using the keyboard shortcuts listed in [Appendix A: Keyboard Shortcuts for Desktop](#).

Release 21.6.0 added support for the following features:

- Dictation
- Screen reader (VoiceOver on OS X)
- Keyboard navigation

The following limitations apply:

- On OS X by default, the tab key moves the focus between text-inputs and lists. This can be changed through *System Preferences* → *Keyboard* → *Shortcuts*. Under *Full Keyboard Access*, select “All Controls” instead of “Text boxes and lists only”.
- Dictation on OS X: If WebRoot SecureAnywhere is used, *Pause Secure Keyboard Entry* must be selected.
- User must manually select the correct language in screen-reader. UC-One will not force screen reader’s language according to the language selection in the client.
- On OS X, the VoiceOver focus follows the VoiceOver Cursor. When VoiceOver is enabled, user is expected to navigate with the VoiceOver Cursor. That can be enabled through *System Preferences* → *Accessibility* → *VoiceOver* → *Open VoiceOver Utility*. In the opened window, open “Navigation” and check “Keyboard focus follows VoiceOver cursor”.
- When using VoiceOver on OS X with different languages, the OS language, client language, and VoiceOver language all need to be the same.

Recommended *Preferences* → *General* → *Accessibility* settings for screen reader/VoiceOver are:

- Tooltips disabled
- Pop-up errors enabled

## **21 Personal Identity Verification Support**

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Communicator Desktop supports Personal Identity Verification (PIV) on Windows only. If you have a PIV card and the associated card reader is attached to your PC, you can log in to Communicator by only providing a PIN related to your PIV card.

Other Communicator functionality is not impacted.

## 22 Preferences

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Preferences provide access to available settings for Communicator. Follow these steps to access *Preferences*.

### **Windows and OS X**

- 1) Click the *Preferences* logo in the *Main* window left pane.
- 2) Select the desired view from the drop-down.

or

### **Windows and OS X**

- 1) Go to the Communicator accessibility menu.
- 2) Select *Preferences*.
- 3) Select the desired view from the drop-down.

### 22.1 General

#### **Language**

Select your language then click **OK** or **Apply** and the change takes effect immediately. Note that the number of languages depends on your service provider.

#### **Login**

Enable or disable automatic login when starting the application and control the remember password feature as well as enable the *Update Password* feature.

#### **Notifications**

Usually there is a confirmation pop-up notification each time you remove a contact or chat history record. By selecting one or all of the check boxes, you can disable the confirmations when deleting information. You can also control whether there is always a pop-up notification for publishing location information. Typically, this is shown at login. You can also select whether to receive a notification before ending communication or holding a call.

#### **Accessibility**

Enable pop-up errors allows Communicator error pop-ups to be shown in addition to the usual error text shown at the top of the *Main* window.

Enable tooltips is enabled by default. For accessibility, screen reader/VoiceOver will read all tooltips, which may be frequent and hence disturbing. For this reason in accessibility cases, it is recommended to disable tooltips.

### 22.2 Media

#### 22.2.1 Audio

##### **Output Device (Voice Playback)**

Choose a headset, PC-integrated speakers, or external speakers for audio output. Your external playback device is selected by default (if you have one connected).

### **Input Device (Voice Recording)**

Choose a headset microphone, PC-integrated microphone, or external microphone for voice during calls. Your external recording device is selected by default (if you have one connected). You can also choose automatic gain control and test your recording device.

## **22.2.2 Microphone**

### **Ring Device (Alert Signal)**

Select the audio device that is played when you receive an incoming call.

### **Ring Signal**

You can select your own ring signal. The same signal is used for both voice and video calls.

You can also select an icon to play a tone for incoming messages. To disable the tone, uncheck the icon. Select a sound event and then click **Play** to hear the sound.

## **22.2.3 Video**

### **Capture Device (Video)**

Select a camera that you want to use for video calls. Your external web cam is selected by default (if you have one connected).

### **Video Size**

Select one of the available sizes. Note, however, that higher sizes require more bandwidth and a more capable central processing unit (CPU).

Click **Test Call** to make a test call to test voice quality.

## **22.3 Services**

In this release, this section is reserved for presence rules. For more information on presence rules, see section [6.20 Presence Rules and Silent Alerting](#).

## **22.4 Extensions**

Select how incoming add-in requests are handled, whether they are automatically accepted or not or if incoming requests are allowed at all.

Depending on your service provider configuration, you can also manage extensions using the Communicator Application Programming Interface (API), which is used by third-party applications such as the Outlook Add-in or compatible headsets. You can allow such third-party applications to obtain information from Communicator and enable or disable confirmation pop-up notifications when third-party applications request information from Communicator. You can also choose default behavior to always reject or accept requests from third-party applications and allow or reject individual third-party applications.

In Release 22.0.0 and later, the following logic applies for accepting application requests:

- Every new first-party application is allowed to connect without user interaction.
- Every new third-party application will open a dialog asking for permission to connect. Your response is remembered (both negative and positive responses).

## 22.5 Advanced

The *Advanced* view contains three different subsections:

- Logging
- Proxy
- Credentials

### Logging

Logging is used for troubleshooting. You may be asked by your service provider to turn on logging and then send a log file directory contents. You can choose basic logging or more detailed logging to be enabled. Detailed logging may consume memory resources so it is not recommended to have it enabled for a long period of time.

You can also clear the logs and open the logging folder.

### Proxy

Select how to handle HTTP proxies. By default, the system settings are used but you can also choose not to use an HTTP proxy or to use the Communicator (client) proxy settings.

### Credentials

Credentials section in the *Preferences* may be empty depending on your service provider configuration. If the *Login* window has an embedded configuration URL (see below), the credentials or the configuration URL are not visible.

### Configuration URL

If the Device Management configuration URL is available to be viewed, it appears here.

### IM Address

If XMPP credentials are available to be viewed, they appear here.

### Reynwood ID

This is the username you use to log in.

## 23 Call Settings

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Communicator supports the following service management features allowing supplementary services to be managed using the *Preferences* and *Call Settings* view available in the *Main* window left pane by selecting the appropriate sub-view in the drop down:

- Incoming calls
  - Reynwood Anywhere
  - Reynwood Remote Office
  - Forward Calls
  - Do Not Disturb
  - Simultaneous Ring Personal
  - Anonymous Call Rejection
  - Call Waiting
- Voice Messaging
- Outgoing Calls
  - Block My Number (Calling Line Identification Presentation [CLIP]/Calling Line Identification Restriction [CLIR])
  - Automatic Callback
  - Highlight to call

You can also use the call settings with a *Main* window toolbar on the top of the window, if this feature is enabled. When enabled, this feature allows Reynwood Anywhere, Do Not Disturb, Remote Office, and Call Forwarding to be managed in the *Main* window using single clicks or right clicks. From Release 20.2 onwards, the *Call Settings* toolbar is an icon in the left pane with right-click menus.

### 23.1 Reynwood Anywhere

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

Reynwood 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 may ring simultaneously.

Experience voice call continuity 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 via the *Add Number* field. Use the *Alert all locations simultaneously* check box to activate parallel ringing. Click on the “+” icon to see more options.

The *Don't divert* check box prevents a call from ending up as a voice mail, which can be problematic in, for example, 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 the *Call Control* check box to enable the server platform to provide mid-call services such as Call Transfer and Conferencing for that number (location).

### **23.2 Reynwood Remote Office**

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

Enable Remote Office by clicking the service icon and specifying a phone number to be used as the Remote Office number.

### **23.3 Forward Calls**

Enter a number to which your calls should be forwarded. Different variants of Call Forwarding are supported, such as forwarding always, forwarding when busy, and forwarding when you cannot answer or when you are unreachable. In addition, you can specify the number of rings before call forwarding is triggered.

### **23.4 Do Not Disturb**

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

### **23.5 Hide Number**

You can hide or display your number when calling or communicating with other parties or contacts. Hide your number by enabling the service icon. To show your number, set this to "Disable".

### **23.6 Simultaneous Ring Personal**

Add up to 10 additional numbers or Session Initiation Protocol Uniform Resource Identifier (SIP-URI) addresses that you would like to ring in addition to your primary number when you receive a call. In addition, specify whether you want answer confirmations and if you would like to receive calls when already on another call. This service is an older variant of Reynwood Anywhere.

### **23.7 Voice Messaging**

You can enable or disable voice messaging in the *Preferences* and *Incoming Calls* tab. A number of settings are available:

- Send all calls to voice mail.
- Send busy calls to voice mail.
- Send unanswered calls to voice mail.
- Specify how voice mail messages are handled using an indicator in Communicator or forwarding to e-mail.
- Enable notifications of new messages via e-mail.
- E-mail a carbon copy of new voice mail.
- Transfer incoming calls to a specified number using "0" DTMF.

- Specify how many rings are used before sending an incoming call to voice mail.
- Allow/disallow callers to leave a message.

### **23.8 Anonymous Call Rejection**

The Anonymous Call Rejection service allows you to reject calls from parties who have explicitly restricted their identities.

You can enable or disable anonymous call rejection in the *Preferences* and *Incoming Calls* tab.

### **23.9 Automatic Callback**

The Automatic Callback (ACB) service allows you to be notified when the previously called busy party becomes idle and is connected without having to redial the phone number.

When you call another party and the call cannot be connected because the line is busy, you are prompted to make an automatic callback request (for example, “The line you are calling is busy. Press 1 if you would like to be notified when the line becomes available”).

If you select Automatic Callback, the system monitors the busy party and automatically establishes a call when the busy party becomes available.

You can enable or disable Automatic Callback in the *Preferences* and *Incoming Calls* tab.

### **23.10 Call Waiting**

The Call Waiting service allows you to answer a call while already engaged in another call.

You can enable or disable server-based call waiting in the *Preferences* and *Incoming Calls* tab. If you disable Call Waiting, the second incoming call will not be connected and the caller hears an announcement that the call cannot be completed.

## 24 Sign Out

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Signing out of Communicator sets your status to “Offline” for your contacts and displays the *Sign In* screen.

### 24.1 Sign Out of Communicator

To sign out, follow these steps.

#### Windows

- 1) Click the Communicator logo in the *Main* window title bar.
- 2) Select **Sign Out**.

#### OS X

- 1) Select *Actions* from the main menu.
- 2) Select **Sign Out**.

### 24.2 Exit Application

To exit the application completely, follow these steps.

#### Windows and OS X

Close the *Sign In* window.

#### Windows

- 1) Select the Communicator logo in the *Main* window title bar.
- 2) Click **Exit** (a keyboard shortcut can also be used).

#### OS X

- 1) Select *Communicator* from the main menu.
- 2) Select *Quit Communicator* (a keyboard shortcut can also be used).

**NOTE:** Closing the *Main* window (not the *Sign In* window) does not exit the application but rather minimizes the application to the system tray (Dock). This allows you to continue to receive calls and messages without having the *Contact List* window appearing on the desktop.

## 25 Multi-Device Support

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Communicator supports users with multiple devices, according to the XMPP specifications. This is comprised of several features:

- Chat invitations sent to a user are received on all devices. Once a particular device has been used to answer the chat invitation, subsequent incoming messages only go to that device.
- One can retrieve one's own presence notifications when another client updates the user's presence. The client stores this information and updates its own presence so that it is the same as the higher priority status it received, (that is, when the received status update is manual). If the received presence update is not manual, it does not react to the received update; it only notes it.
- Accepting a sharing presence invitation in one client is also recognized by another client, and both clients start receiving presence updates.
- Last sent and received messages are available on all devices when the optional message history feature is in use. All devices should use that feature at the same time to avoid duplicate messages.
- Missed chat badges are synchronized across all own devices when this preview feature is enabled (native desktop only).
- A new presence subscription made in one client is recognized in another. If the contact declines the "invitation", there are presence notifications from the server to all of the user's clients indicating that the subscription was terminated and 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 the 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.

If a user has many devices, each device has the same status when shown to the end user. In addition, the contacts on the contact list always see the same status with updates shown in the following priority order:

- *Busy*
- *Online*
- *Away*
- *Offline*

This means, for example, that if one client publishes a *Busy* status and another client publishes another status, contacts see the user as *Busy*. Compatible devices such as desk phones are able to show presence in the same way.

Communicator keeps track of its own presence status as well as the status of other devices and deducts the combined presence based on these. For more information, see [Appendix E: Multi-Device Presence](#).

## 26 Installation

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Installer supports a number of options on Windows (native desktop only):

- Agree to the license agreement.
- Run when system starts (can be changed later in *Preferences* window).
- Create a desktop icon.
- Select destination folder for installation.
- Select name of the software in *Program* menu.
- Launch client after installation.

When installer has been run on an end user's behalf by an administrator, the "Run program when system starts" option cannot be changed by that end user.

If you disable startup, for example, in the Task Manager's *Startup list* (on Windows 8 and 10) or from *msconfig.exe* on Windows 7, the change is not reflected in *Preferences*. The checkbox remains checked and grey even though the client is not actually started automatically when the system starts.

When Communicator is installed for the first time, you can choose the language if many languages are supported in the installer. The default language is the language of the operating system; if that cannot be found, English is used as the fallback.

In Release 21.5.0 and later and depending on your service provider settings, the Outlook Add-in installer is bundled together with the Communicator installer.

## 27 Uninstallation

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The uninstallation procedure is different for Windows and OS X.

### Windows

Uninstallation is performed by launching the Windows uninstaller via the Start menu or by using the Windows “Remove programs” view inside the Control Panel. Windows uninstallation does not require you to select any options.

All files are deleted at uninstallation, except for the following files:

- Registry entries
- Account files are only deleted when explicitly allowed by the end user on Windows.

### OS X

Uninstalling is performed by simply dragging the application folder from the Applications directory to the trash can; however, account files are not deleted. If you want to remove account files, they must be manually deleted. These are the file locations for the account directories. The following locations apply for all account directories:

For branded clients:

```
/Users/<USERNAME>/Library/Application  
Support/<company_name>/<application_name>
```

For the reference client:

```
/Users/<USERNAME>/Library/Application Support/BroadSoft/Communicator
```

## 28 System Requirements

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System requirements are as follows on native desktop:

- Operating system: Mac OS 10.10 Yosemite, Mac OS 10.11 El Capitan, Mac OS 10.12 Sierra, Windows 7, Windows 8/8.1, or Windows 10 (Classical view only).
- The installation footprint is approximately 125 megabytes (MB) on OS X and 215 MB on Windows.
- For voice calls, a sound card, speakers, and a microphone or a headset are required.
- For video calls, a web cam is required.

Minimum system requirements for respective operating systems need to be fulfilled, with the following additions:

- A minimum of 2 GB random access memory (RAM) is required.
- A minimum 1.5 GHz CPU is recommended. A dual core CPU is recommended for video calls at a minimum.
- Open Graphics Library (OpenGL) 1.5 or higher is recommended.

For high definition (HD) video, the following is recommended:

- HD camera
- HD resolution support in display
- Quad Core x86 or equivalent at a minimum
- 4 GB RAM

VDI environments are not supported.

## 29 Troubleshooting

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### **Why can't I chat with contacts from Yahoo?**

Chatting with users in other domains is possible, but depends on the domain. For instance, BroadCloud supports Google federation but not Yahoo. However, group chat is not supported in Google federation, so the group chat option with those contacts is shown in grey.

### **Why can't I change the avatar?**

Double-clicking the avatar should open a File Explorer view to select a file. If your XMPP connection is lost, changing the avatar does not succeed. A lost XMPP connection is indicated in the Main window's top notification area.

### **My contacts are all offline and my client's status bar says "XMPP unavailable". What does this mean?**

It means that the XMPP connectivity has been lost for chat, as well as for presence; however, you can still make calls. You should contact your service provider.

### **Why am I offline?**

If you have selected "Offline" status, you are shown as offline to others. Another possibility is that you may have lost your Internet connection. In this case, the client does not log out, but rather enters an offline mode where a contact list is available but communication is not possible.

### **Why can't I have more video resolutions available?**

You can choose your video resolution from *Preferences* and the *Video* tab. Your selection is used by default for future video calls. The available resolutions are automatically presented based on your camera.

### **Why can't I change my user name and password?**

User name and password editing is not supported in the client. To edit your user name or password, contact your service provider. The exception is login password expiry. When it expires, you can change the password in a separate dialog window.

In the preferences, the client only supports changing LDAP credentials. Desktop sharing credentials may also be changed, depending on your service provider settings.

### **Why does my all day calendar entry not trigger *Busy – In Meeting* presence status?**

Not all meetings trigger a presence change to *Busy – In Meeting*.

To trigger the presence update, the meeting must be in the *Show me as busy* state.

### **Why aren't all my group chat messages saved?**

Only the newest chat room messages are stored on the server, but never for My Room for security reasons. Starting from Release 21.3.0, when the optional (Preview mode in Release 21.3.0 and fully supported in Release 21.4.0) message history feature is enabled by your service provider, messages sent from other devices are also shown.

**Why aren't all my chat messages available in my other devices?**

All one-on-one and group chat messages are saved, but only locally, so they are not necessarily available in your other devices. Incoming messages are sent to all devices; however, the ones that you send are only stored in the device that you are using to send the message. Starting from Release 21.3.0, when the optional (Preview mode in Release 21.3.0) message history feature is enabled by your service provider, messages sent from other devices are also shown.

**Why can't I change the XMPP address of a contact?**

This is not supported in this release. However, you can delete the contact and add a new one.

**Why does my location show an incorrect address?**

It is done based on the public IP address that the machine is using. The IP address is mapped to a physical location. BroadSoft is working with the mapping provider to improve the accuracy of the location. You can also manually change the location by clicking the avatar and changing the location icon.

**Why can't I start desktop sharing?**

To share your desktop, you need to have valid credentials, either by manually entering desktop sharing credentials in the *Preferences* → *Credentials* window, or by using auto-provisioning to enable the desktop sharing menu items and icons. However, you can participate in desktop sharing sessions even without any sharing credentials. Your service provider settings dictate if auto-provisioning is enabled or not.

**Why can't My Room participants share the desktop?**

Only the owner of the room can share the desktop before Release 21.2.0. Starting in Release 21.2.0, participants can also share when enabled by the service provider. This applies to both *My Room* and ad hoc sessions.

**I have a USB headset and the call control features are not working. Is there anything special I need to do to enable call control support?**

In order to use headsets on Windows (not supported on OS X), several steps are needed:

- 1) When the client is started, you must accept the API connection request from the connector/add-in device.
- 2) Additionally, your client must have the feature enabled by your service provider.
- 3) If your USB headset uses its own add-in, the standard HID add-in from BroadSoft must be disabled, as both cannot be used at the same time. In addition, you must have "Allow 3<sup>rd</sup> party extensions" check box checked in *Preferences* → *Extensions* tab.

**Why is Outlook add-in disabled?**

If the context menu does not show add-in menu items, this could be due to the Outlook Add-in disabled by Outlook for slow loading. This happens primarily in Outlook 2013. In such cases, enable this add-in by selecting the *Outlook* menu → *File* → *Info* → *Manage Add-Ins* → *Communication Add-in* → *Always enable this add-in* from the displayed menu (as shown in the following figure).

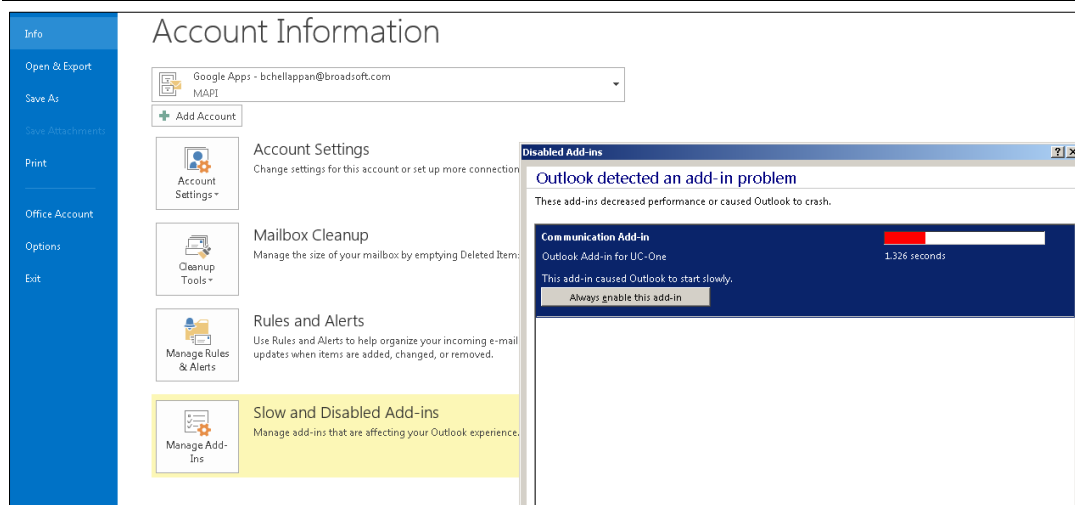


Figure 11 Outlook Account Information – Add-in Disabled

### Why is presence not showing in Outlook Add-in?

If the presence indicator icon is not shown in Outlook, verify any of the following software is installed:

- Microsoft Office Communicator (OCS)
- Microsoft Lync/S4B
- Skype version 6.1 or above

Uninstall each one found and restart Outlook and the Communicator client.

**NOTE:** During Office/Outlook 2013 installation, the installer installs Microsoft Lync by default. You must uncheck Microsoft Lync (as shown in the following figure) and then proceed with the installation.



Figure 12 Microsoft Office Installation Example

### How do I disable/enable Outlook Add-In from Communicator preferences view?

To Enable/Disable Outlook contact presence status (5.1 Presence in Outlook), from Communicator Preference page, “Gateway process- Outlook add-in” check box option must be checked/unchecked.

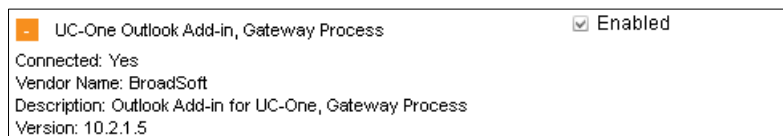


Figure 13 Communicator Preference Page

To Enable/Disable Outlook context menu related to add-in, from Communicator Preference page, the “BTBC Outlook add-in” check box options needs to be checked/unchecked.



Figure 14 Communicator Preference Page

### Why is Outlook Add-in disabled in Outlook 2007 on Windows 10?

This is because on Windows 10 .net Framework 3.5 is disabled by default; this has to be activated in order to enable the Outlook Add-in.

To Enable 3.5 .net framework on Windows 10, go to:

Add/Remove Programs → Turn Windows features on or off → Select - Option .NET Framework 3.5 (includes .NET 2.0 and 3.0).

Click **OK**.

### Why is contact's own presence shown as unknown even though I'm logged in Communicator (Outlook 2007)?

Sometimes in Outlook 2007, own presence of the logged in user is shown as unknown in Outlook (especially after re-installing Communicator).

Re-install the Outlook Add-in for Communicator after Communicator re-installation.

In Outlook 2007, it is always suggested to log into Communicator before opening Outlook.

### Why in Outlook 2007 Outlook Add-in is sometimes disabled when it is installed for ALLUSERS?

There is a limitation with Outlook (Office) 2007, VSTO add-ins do not load when these are installed for ALLUSERS, so those add-ins are always disabled by Office 2007.

There is a hotfix available (KB976811 <https://support.microsoft.com/en-us/kb/976811> available through KB976477 <https://support.microsoft.com/en-us/kb/976477>) for Office 2007 which makes it possible to install add-in for ALLUSERS.

**Why sometimes Outlook Add-in IM buttons are greyed out in the quick contact page, even though the user logged in?**

Sometimes IM buttons are greyed out on the contact page. When mouse over on it, it shows the message "To use this feature, sign in to an instant messaging program".

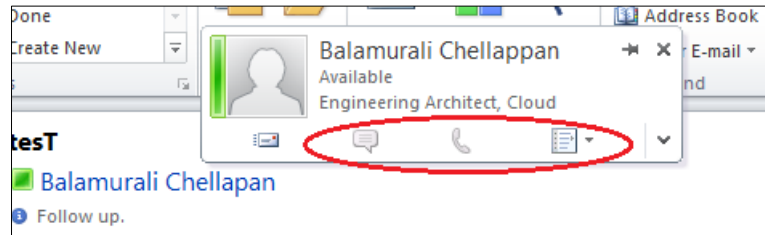


Figure 15 Outlook Add-in IM Buttons Issue

This seems to be a Microsoft issue, and the workaround to solve is to restart Outlook.

## Appendix A: Keyboard Shortcuts for Desktop

The following table lists the currently supported keyboard shortcuts (native desktop only). You can use these keyboard shortcuts to quickly perform frequently used actions. The characters used are lower case. The shortcuts are also indicated in the accessibility menus.

Shortcut for Windows	Shortcut for Mac	What it does
CTRL-Q	Cmd-Q	This quits the application.
Alt+F4	Cmd-W	This closes the selected window (except for a contact card and the <i>About</i> window).
CTRL+C	Cmd-C	This copies selected text from Communicator to the clipboard.
CTRL+V	Cmd-V	This pastes text from the clipboard to the location selected using the cursor in Communicator.
CTRL-X	Cmd-X	This cuts the selected text to clipboard.
Enter	Enter	When in the <i>Communications</i> window, this sends a chat message (if the <i>Chat</i> view is visible). When in the contact list, this opens a chat with the selected contact. When in the <i>Communications History</i> , this opens a communications session with the contact or address related to the selected item. This opens a chat if the item was chat and a call if the item was a call.
-,	Cmd-,	This opens <i>Preferences</i> .
F1	Cmd-?	This opens <i>Help</i> .
CTRL+A	Cmd-A	This selects all text in the <i>Chat</i> view.
-	Cmd-H	This hides Communicator.
-	Alt-Cmd-H	This hides other windows other than Communicator.
CTRL-N	Cmd-N	This opens the <i>Add Contact</i> window.
Shift-CTRL-N	Shift-Cmd-N	This opens the <i>Add Group</i> window.
CTRL -1	Cmd-1	When a contact is selected, this opens a chat session with the contact.
CTRL -2	Cmd-2	When a contact is selected, this calls the contact with audio.
CTRL -3	Cmd-3	When a contact is selected, this calls the contact using call from phone.
CTRL -4	Cmd-4	When a contact is selected, this calls the contact with video.
CTRL -5	Cmd-5	When a contact is selected, this joins their room.
CTRL -6	Cmd-6	When a contact is selected, this opens an e-mail-sending window using the default e-mail client.
CTRL -I	Cmd-I	When a contact is selected, this opens the contact card for the contact.
Shift-CTRL-F	Shift-Cmd-F	When a contact is selected, this makes the contact a favorite.
CTRL-delete	Cmd-delete	This deletes the selected contact.

Shortcut for Windows	Shortcut for Mac	What it does
CTRL-arrow down	Cmd-arrow down	This decreases the volume.
CTRL-arrow up	Cmd-arrow up	This increases the volume.
CTRL-space	CTRL-space	This mutes the client (while in a call).
CTRL-D	Cmd-D	This turns on the Do Not Disturb service.
CTRL-P	Cmd-P	This pulls an ongoing call from your other device to Communicator.
Alt-shift-CTRL-P	Alt-shift-Cmd-P	This retrieves your parked call.
-	Alt-Cmd-2	This calls your voice mail with audio.
-	Alt-Cmd-3	This calls your voice mail with audio using call from phone.
-	Alt-Cmd-4	This calls your voice mail with video.
Shift-CTRL-R	Shift-Cmd-R	This opens your My Room.
CTRL-M	Cmd-M	This minimizes the window on OS X. On Windows, it only is used for the <i>Team Telephony</i> window.
CTRL-T	Cmd-T	This enables always on top.
-	Shift-Cmd-M	This opens the <i>Main</i> window.
Shift-CTRL-C	Shift-Cmd-C	This opens contacts.
Shift-CTRL-F2	Shift-Cmd-F2	This opens call history.
Shift-CTRL-F1	Shift-Cmd-F1	This opens chat history.
Shift-CTRL-F3	Shift-Cmd-F3	This opens visual voice mail.
Shift-CTRL-D	Shift-Cmd-D	This opens the dial pad view.
Shift-CTRL-W	Shift-Cmd-W	This opens the web button view.

## Appendix B: Guest Client Usage

This section provides more hands-on information about guest client usage.

- 1) Right-click on the **My Room** icon to copy the guest join link and send it to a guest via email or other means.

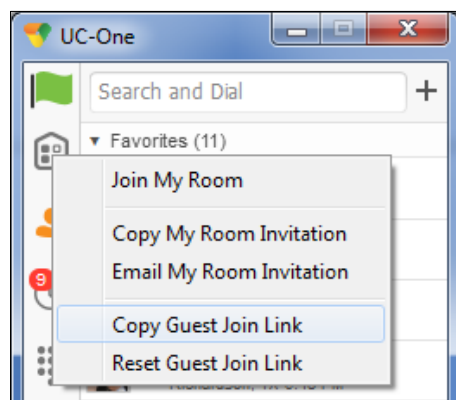


Figure 16 Copy Guest Join Link Menu Option

- 1) The guest can open the link in one of the supported browsers, enter their name and password, and then click **JOIN ROOM**.

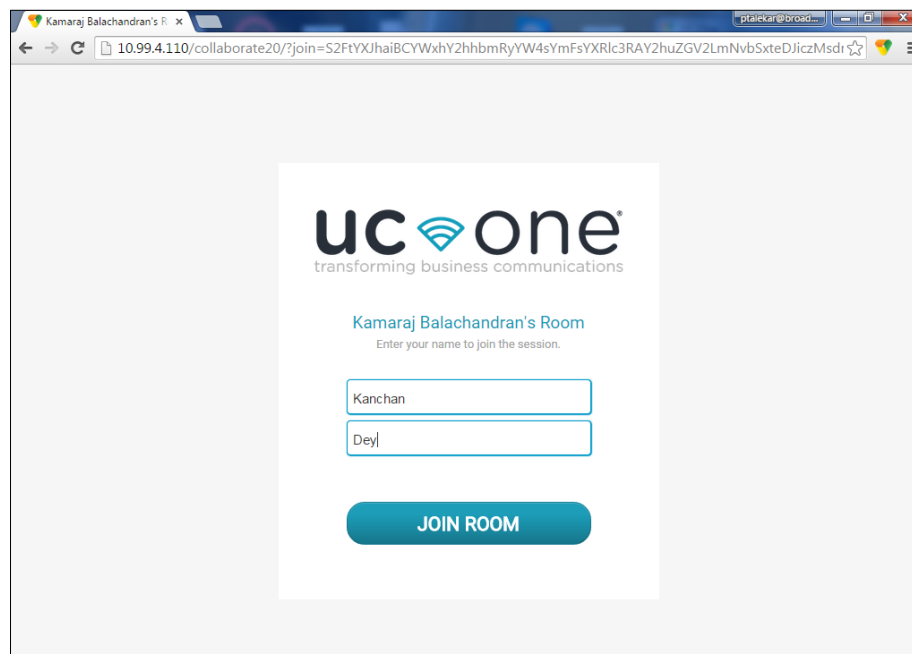


Figure 17 Login Screen for Join Room

- 2) Once you click on **JOIN ROOM**, you see a badge on your My Room icon (as shown in the following figure).

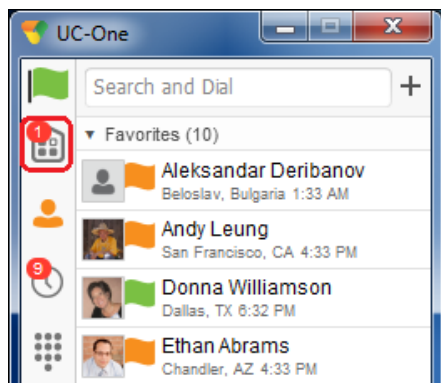


Figure 18 My Room Icon – Guest Request Badge

- 3) Open your My Room and accept the guest request.

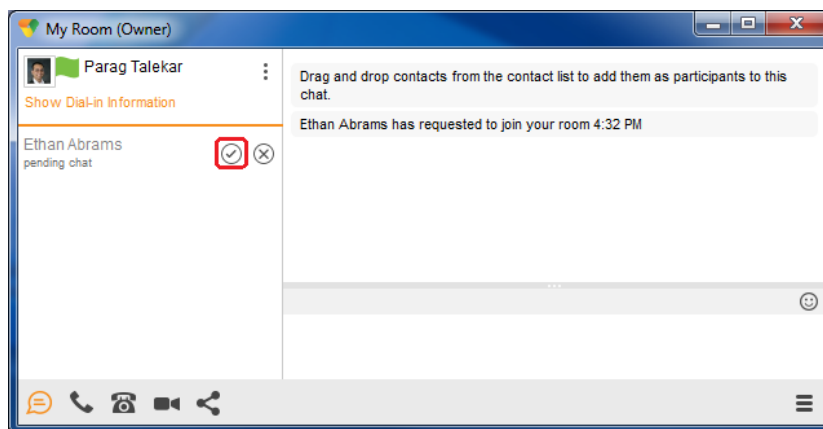


Figure 19 My Room – Accept Guest Request

You can also accept or decline join requests from the pop-up notification as shown in the following figure. This pop-up notification is shown only if you already have your My Room open.

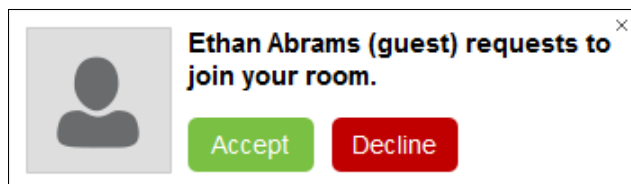


Figure 20 Accept/Decline Request Pop-Up

- 4) The guest is allowed into your room and can now participate in multi-user chat with other participants in the room (as shown in the following figure).

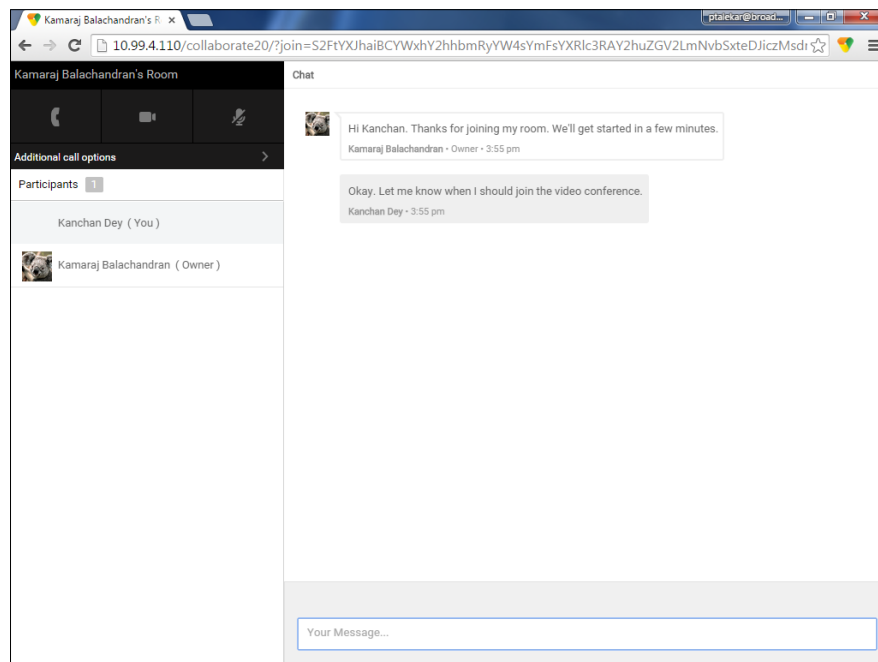


Figure 21 My Room Window – Guest Chat

If your service provider has enabled WebRTC support, then the guest can join the audio/video portion of the session by clicking on the audio or video button. This feature is only available on certain browsers and the user must grant access to their camera and microphone by clicking **Allow** (as shown in the following figure).

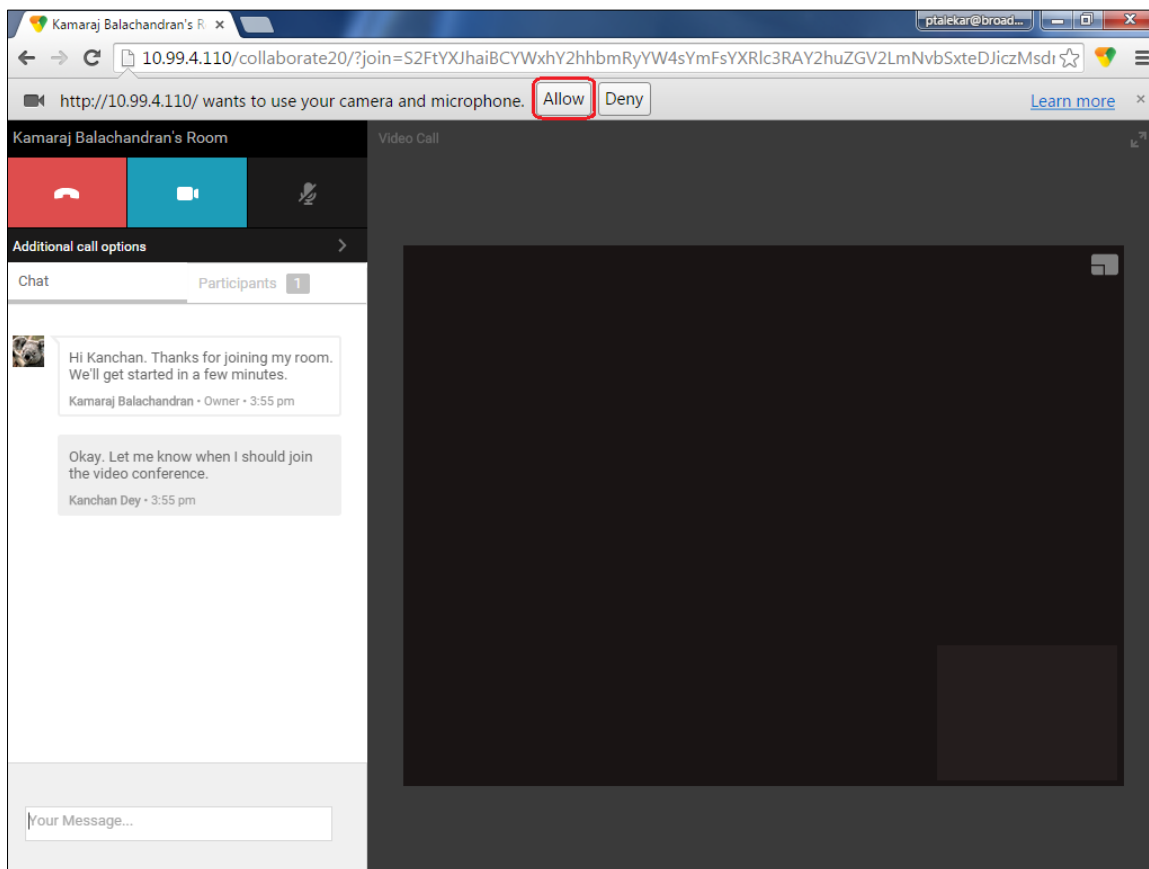


Figure 22 Allow Access to Camera and Microphone Access

The guest can switch between audio and video mode by clicking on the video icon. They can also mute and end the call by clicking on the mute and end call icons respectively.

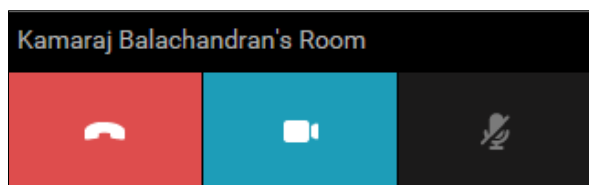



Figure 23 My Room Window Icons

The guest can show or hide their self-view by clicking on the  icon in the top left corner of the video.

- 5) You can start your desktop share from the desktop client and the guest then sees it. The video call is resized and moved to the top left.

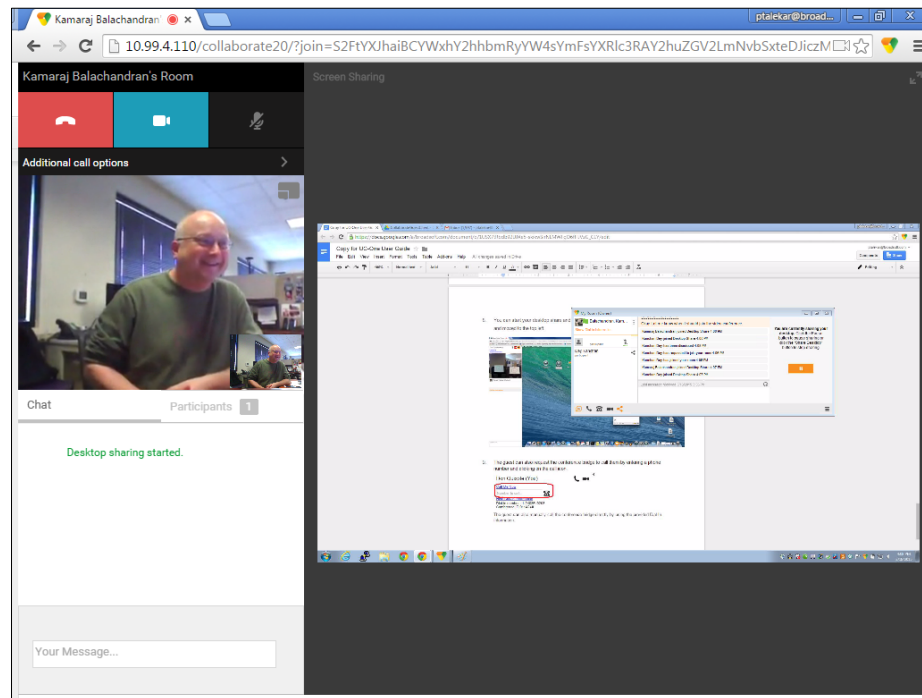


Figure 24 My Room – Desktop Share with Video Call

- 6) The guest can also request the conference bridge to call them by entering a phone number and clicking on the **CALL ME** button. The Call Me Now feature must be enabled by your service provider for this to be available.

**Additional call options**

**CALL ME OPTION**

Enter your number, and we'll call you.

**DIAL-IN OPTION**

Dial-in number: 3331111618  
 Conference ID: 348139#  
 Security PIN: 552334#

Figure 25 Additional Call Options

The guest can also manually call the conference bridge directly by using the provided dial-in information.

## Appendix C: Skype for Business Integration

This section provides more hands-on information about Skype for Business (S4B) integration usage.

The required startup procedure is as follows (reversing the order in which S4B and Communicator are started will not work):

- 1) Start S4B.
- 2) Start Communicator. You can have it minimized or in the foreground. Your service provider may also choose an automatic “Minimize after login” feature that automatically minimizes Communicator after login.

The original intended use case for S4B integration was to use S4B for presence and chat and on-net (VoIP) calls while Communicator would be used for off-net calls with presence and chat turned off. However, many deployments keep the full presence and chat functionality of Communicator. Communicator supports presence synchronization between S4B and Communicator for most presence statuses.

The following sections describe the ways to make various kinds of calls.

### On-Net Calling

To make an on-net call:

- 1) Select a S4B contact and click the call button. Alternatively, right-click a contact and select an on-net number.
- 2) Both the S4B main window and communications window are visible (as shown in the following figures).

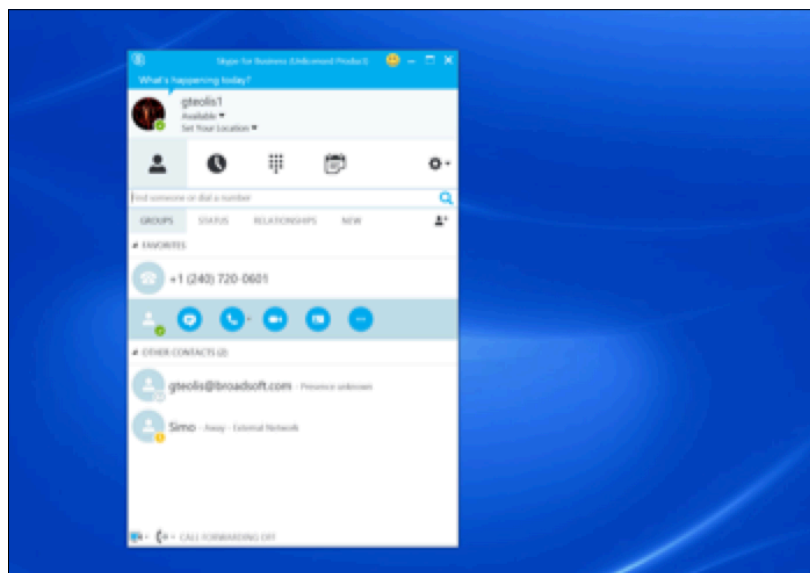


Figure 26 Making an On-Net Call

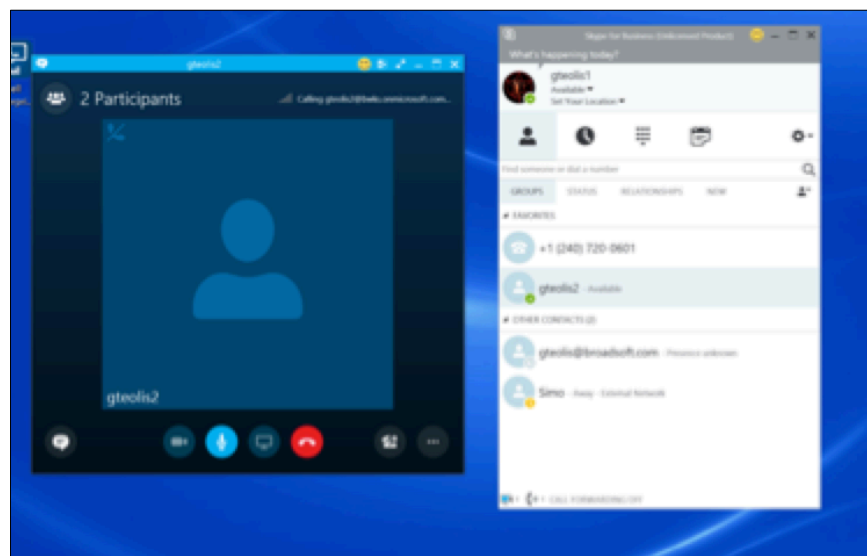


Figure 27 Ongoing On-Net Call

### Off-Net Calling

Off-net calling has more variations due to S4B remembering the last number used to call a contact when clicking the call button (default action). As a result, when in S4B calling another S4B contact who is, for example, offline or in DnD status, using the call button (where the default action is to call an S4B address) will fail and the S4B call will not complete.

Your service provider can configure Communicator to make the call instead in these cases.

To make an off-net call:

- 1) Select a contact, right-click and select an external number (see the following list for the possible selections). The same outcome occurs when making an S4B-to-S4B call while the called person is, for example, offline or in the DnD state. Selecting a particular number from the right-click menu will call that number, while using the call button only selects the number to be called. The order in which the number is selected in this case is listed as follows and cannot be changed:
  - Work phone
  - Mobile phone (can also be two mobile numbers)
  - Home phone
  - Other phone
  - S4B voice mail
- 2) Communicator attempts to make the call instead of S4B. Both the S4B main window and Communicator communications window are visible.

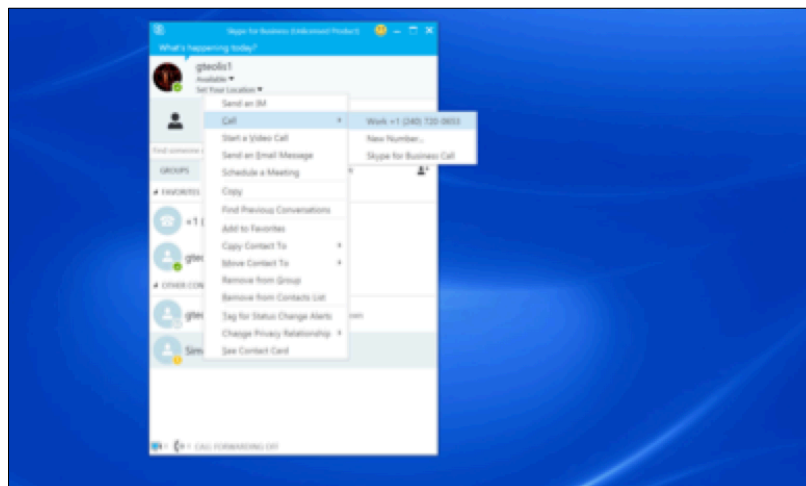


Figure 28 Making an Off-Net Call

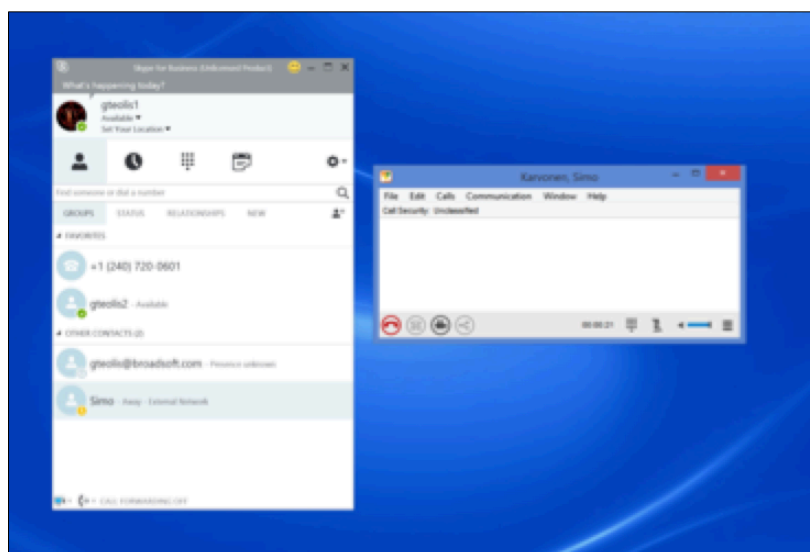


Figure 29 Ongoing Off-Net Call

### Presence Synchronization

When Communicator is configured to have full presence functionality and to also act in S4B integration mode, making a call in Communicator may automatically change Communicator presence to *Busy –In Call*. In this case, a similar presence status is automatically selected on the S4B side and vice versa.

The same principle also applies to other presence statuses. Changing presence on the S4B side is detected by Communicator and a similar presence state is automatically shown on the Communicator side. Note that the different presence statuses used in S4B and Communicator are not 100% the same so an exact mapping is not possible. However, a status variant is matched to a similar status variant on the other client. For example, a busy status variant would be matched to a busy status variant.

## Appendix D: Configure USB Headsets

This section provides more information on configuring USB devices to function with Communicator. Note that some headset manufacturers have built their own add-ins for UC-One, for instance, Jabra on Windows. In this case, the standard HID add-ins cannot be used at the same time. You can enable and disable add-ins in the *Preferences* → *Extensions* view.

In general on Windows, if “Default Communication Device” is defined in Windows settings, it is selected over the “Default Device” by Communicator for calls when several audio devices are available (for example, USB headset and the integrated audio device on the PC). However, when using headsets, you can select a separate device than the headset for alerting incoming calls.

The following examples provide more information on how to define a default communications device when a USB headset is available on the PC.

It is recommended to select “Use Default” in the *Audio* tab of Communicator *Preferences* for both input and output devices (as shown in the following figure).

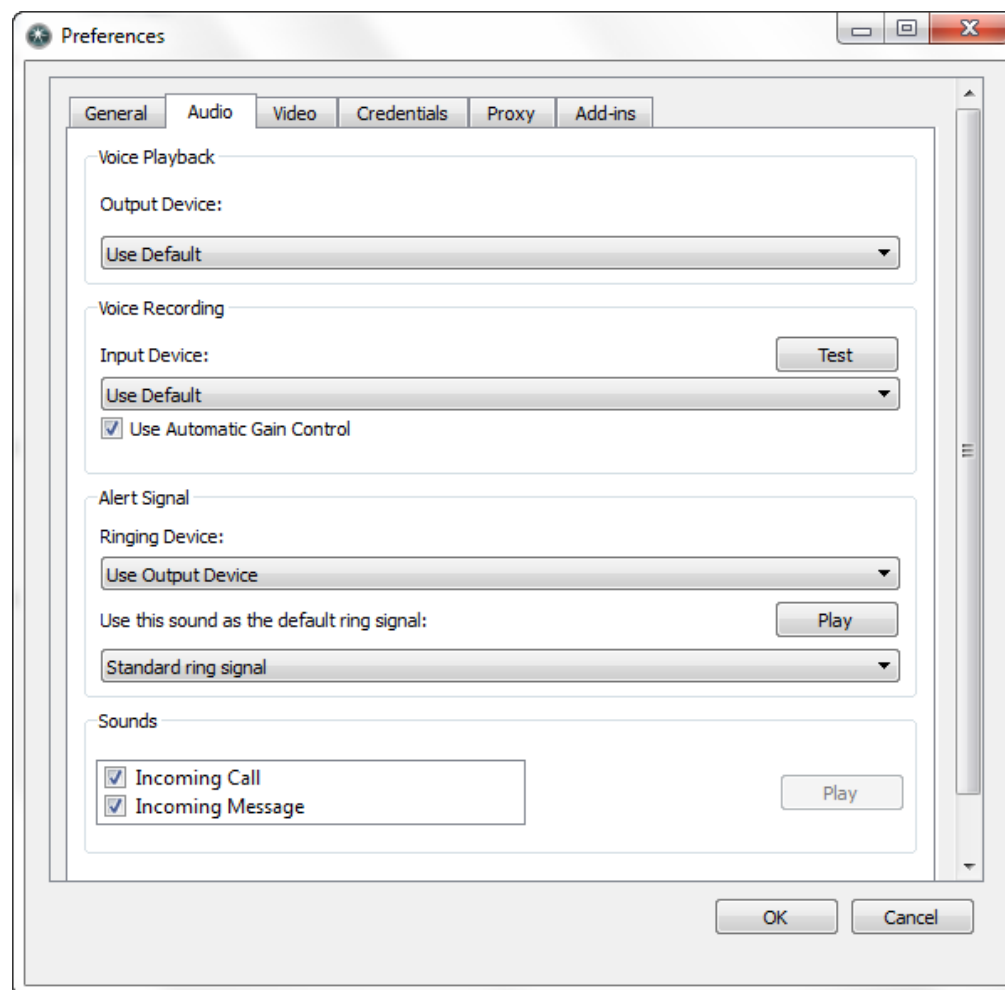


Figure 30 Preferences Window

- 1) To define the default communications device, make sure that the Sound settings in Windows pertaining to “Recording” and “Playback” devices are correctly configured. From the *Sound* applet, select the *Playback* tab.

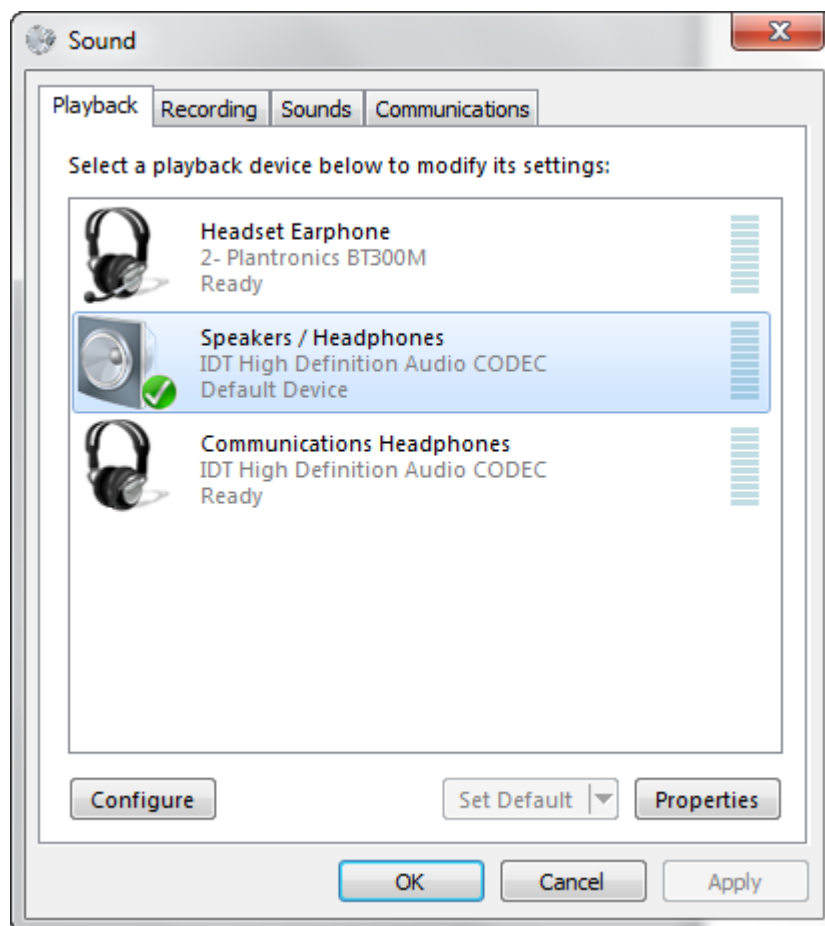


Figure 31 Sound Window – Playback Tab

In this example, the user has a Plantronics BT300M (the USB dongle accompanying a Voyager Legend UC) connected to their PC.

- 2) Click **Headset Earphone** to highlight the device and click on the drop-down arrow next to the **Set Default** button.

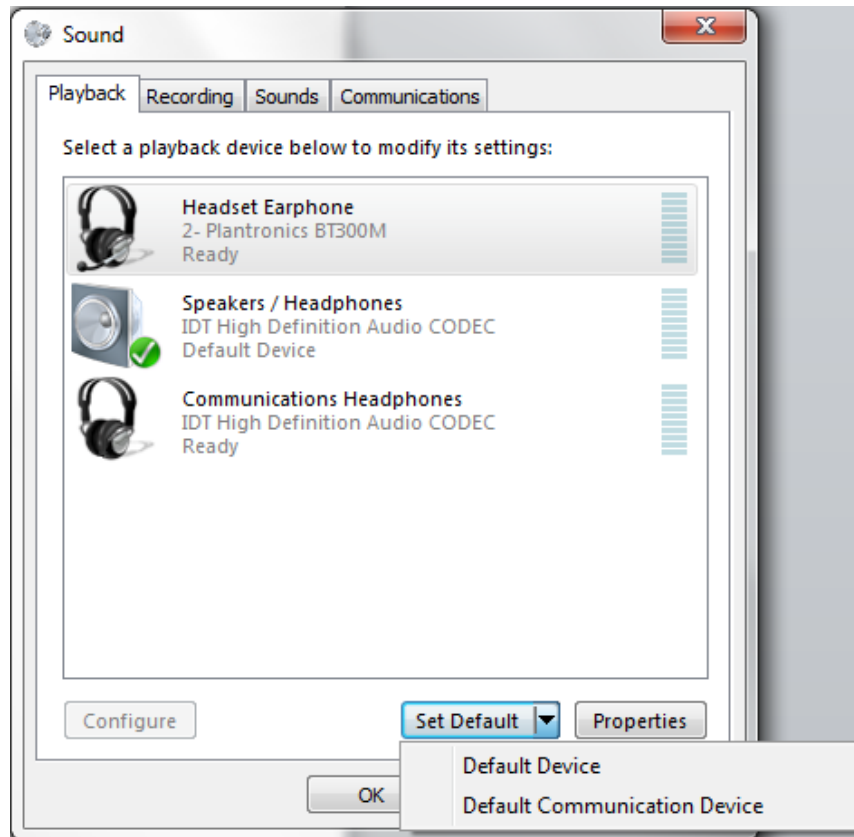


Figure 32 Sound Window – Playback Tab – Set Default

3) Select *Default Communication Device*. The following screen is displayed.

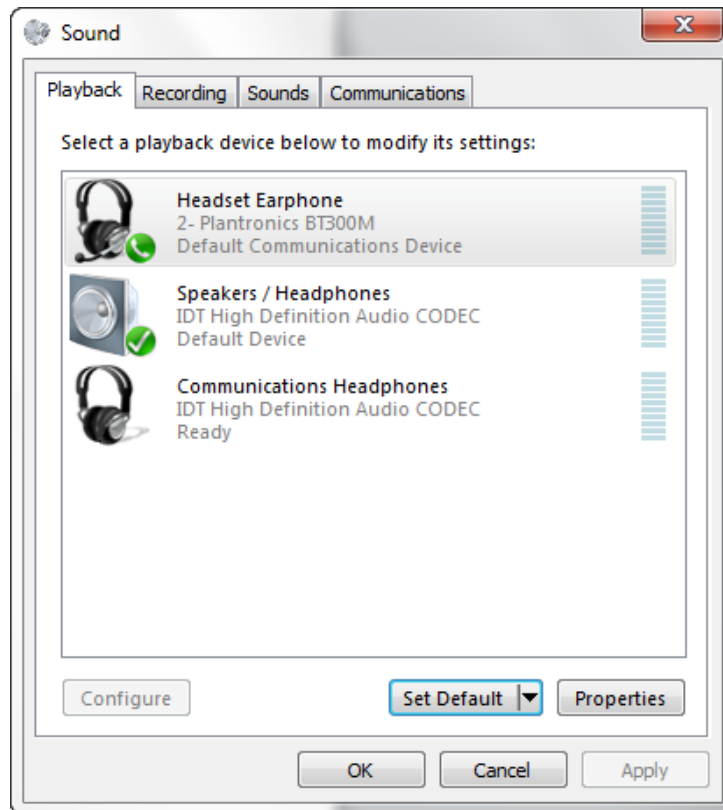


Figure 33 Sound Window – Playback Tab – Default Set

4) Next, click the **Recording** tab.

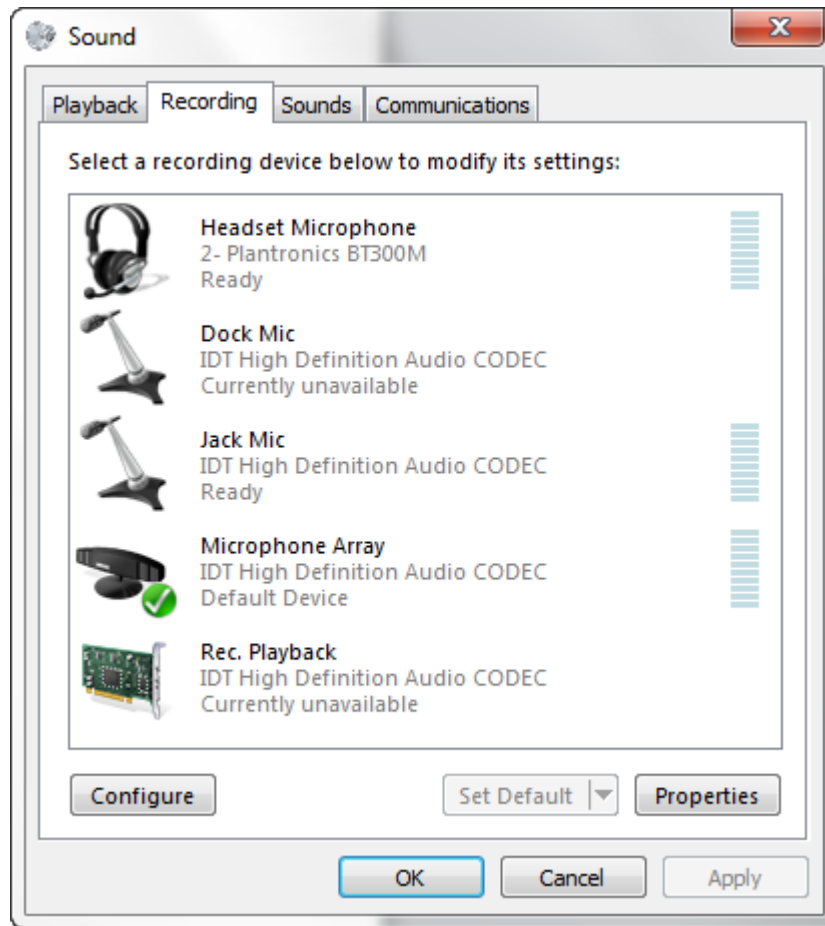


Figure 34 Sound Window – Recording Tab

- 5) Again, click on **Headset Microphone**, which represents the connected Plantronics BT300M device, and click on the drop-down arrow next to the **Set Default** button.

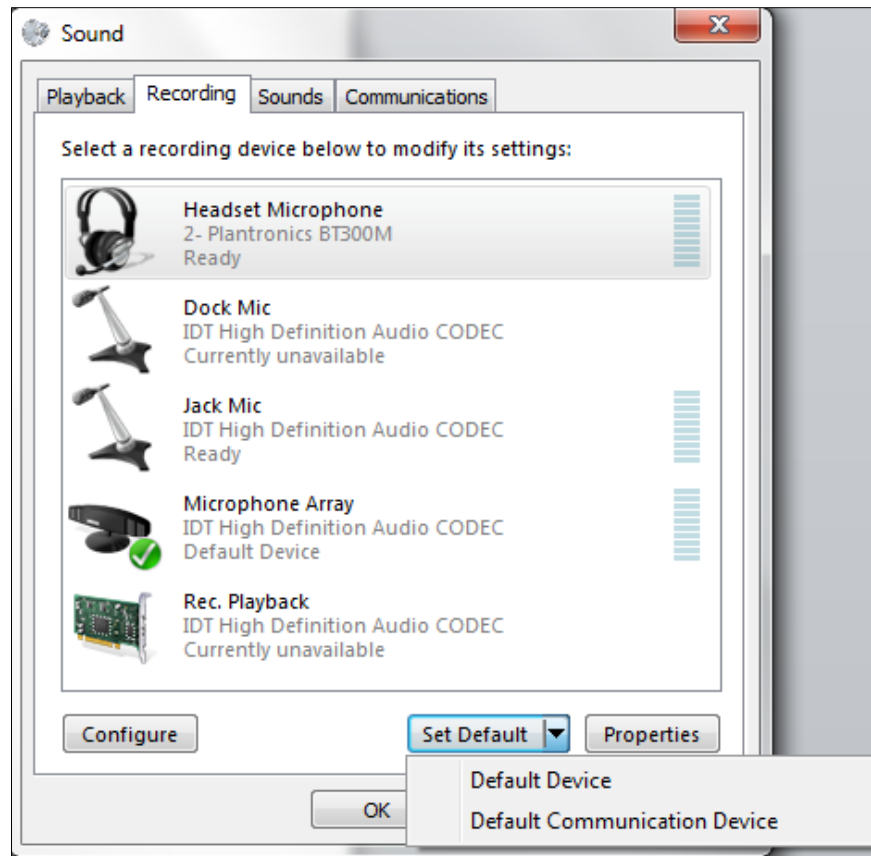


Figure 35 Sound Window – Recording Tab – Set Default

- 6) Select *Default Communication Device*.

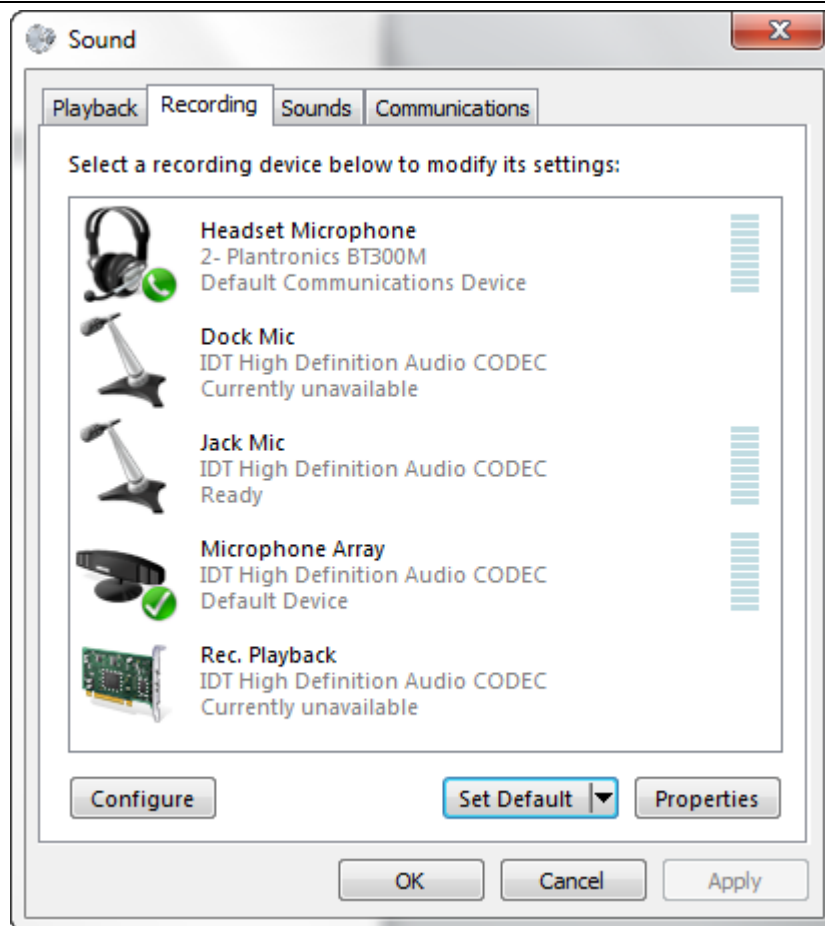


Figure 36 Sound Window – Recording Tab – Default Set

- 7) Click **OK** to save the changes. The *Sound* window is dismissed and your device is now ready to be used by Communicator.

## Appendix E: Multi-Device Presence

This section provides a table describing the presence state changes based on the presence state that Communicator has as well as the presence status of other devices that the same user has active. There is a distinction between what is shown in the UI and what is the internal presence status of the Communicator client since the design is to show the same own presence in the UI of all own online devices. The following table is applicable from Release 21.3.0 to 21.6.0 when the presence aggregation feature is not used. Earlier releases have slightly different behavior in some cases. The table describes presence state changes when steps 1 to 6 are executed in order, starting from step 1 and continuing through to step 6.

Presence published by iOS	Presence published by Desktop		Action by iOS Communicator	Iphone (user A) own presence in UI		OSX (user A) own presence in UI		Mobile Android(user B, watching user A) UI	
				Initial Status	Result	Initial Status	Result	Initial Status of User A	User A status after action
away -30	away -30	Step1	Try to change iphone status from Available to Away	Available	Away	Available	Away	Available	Away
dnd 100	dnd 100	Step2	Try to change iphone status from Away to Busy	Away	Busy	Away	Busy	Away	Busy
unavailable	none	Step3	Try to change iphone status from Busy to offline	Busy	offline	Busy	Busy	Busy	Busy
-10	away - 30 and then dnd +100 when typing/mouse activity on Pc	Step4	Try to change iphone status from offline to Available	Offline	Busy	Busy	Busy	Busy	Busy
unavailable	none	Step5	Try to change iphone status from Available to Offline	Busy	Offline	Busy	Busy	Busy	Busy
-10	away - 30 and then dnd +100 when typing/mouse activity on Pc	Step6	Try to change iphone status from offline to available	Offline	Busy	Busy	Busy	Busy	Busy

The previous scenario happens when typing or mouse movement occurs on the desktop machine in steps 4 and 6. If this is not done, then the away status would be the desktop's "own" presence and the table would look as follows (same states in the beginning and different ones marked in green).

Presence published by iOS	Presence published by Desktop		Action by iOS Communicator	Iphone (user A) own presence in UI		OSX (user A) own presence in UI		Mobile Android(user B, watching user A) UI	
				Initial Status	Result	Initial Status	Result	Initial Status of User A	User A status after action
away -30	away -30	Step1	Try to change iphone status from Available to Away	Available	Away	Available	Away	Available	Away
dnd 100	dnd 100	Step2	Try to change iphone status from Away to Busy	Away	Busy	Away	Busy	Away	Busy
unavailable	none	Step3	Try to change iphone status from Busy to offline	Busy	offline	Busy	Busy	Busy	Busy
-10	away - 30 (forced automatic)	Step4	Try to change iphone status from offline to Available	Offline	Available on mobile	Busy	Available on mobile	Busy	Available on mobile
unavailable	none	Step5	Try to change iphone status from Available to Offline	Available on mobile	offline	Available on mobile	Away	Available on mobile	Away
-10	away - 30	Step6	Try to change iphone status from offline to available	Offline	Available on mobile	Away	Available on mobile	Away	Available on mobile

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## Appendix F: Acronyms and Abbreviations

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ACB	Automatic Callback
API	Application Programming Interface
CPU	Central Processing Unit
DND	Do Not Disturb
DTMF	Dual-tone multi-frequency
ECACS	Emergency Call Address Change Service
EULA	End-User License Agreement
FAC	Feature Access Code
FAQ	Frequently Asked Question
FIPS	Federal Information Processing Standard
FMC	Fixed-mobile Convergence
HD	High Definition
HID	Human Interface Device
LDAP	Lightweight Directory Access Protocol
LGPL	Lesser General Public License
MWI	Message Waiting Indication
PIV	Personal Identity Verification
RAM	Random Access Memory
SIP	Session Initiation Protocol
UC	Unified Communications
UI	User Interface
URL	Uniform Resource Locator
UVS	Reynwood Video Server
VDI	Virtual Desktop Infrastructure
VoIP	Voice over IP
WebRTC	Web Real-Time Communication
XMPP	Extensible Messaging and Presence Protocol
Xsi	Xtended Services Interface