# Clearspan® Communicator User Guide for Desktop

RELEASE# 21.5.1 MAY 2017



#### **NOTICE**

The information contained in this document is believed to be accurate in all respects but is not warranted by Mitel Communications, Inc. (MITEL®). The information is subject to change without notice and should not be construed in any way as a commitment by Mitel or any of its affiliates or subsidiaries. Mitel and its affiliates and subsidiaries assume no responsibility for any errors or omissions in this document. Revisions of this document or new editions of it may be issued to incorporate such changes.

No part of this document can be reproduced or transmitted in any form or by any means - electronic or mechanical - for any purpose without written permission from Mitel Communications, Inc.

#### **TRADEMARKS**

Clearspan® and Mitel® are trademarks of Mitel Networks Corporation.

Other product names mentioned in this document may be trademarks of their respective companies and are hereby acknowledged.

Clearspan Communicator User Guide for Desktop Release #21.5.1 2807-004 May 2017

®,™ Trademark of Mitel Communications, Inc.
 © Copyright 2017 Mitel Communications, Inc.
 All rights reserved

REVISION HISTORY	1
ABOUT CLEARSPAN COMMUNICATOR FOR DESKTOP	2
GETTING STARTED	2
Installation	2
Sign In	3
Main Window	3
Communications Window	5
Start Chat	6
Send File	6
Make Audio or Video Call	6
Share Your Application or Desktop	7
Active Communications	7
My Room	8
Select Audio Devices	9
CONTACTS	9
Add	10
Edit	10
Filters	11
PRESENCE	11
CHAT	13
Chat View	13
File Transfer	13
Group Chat	14
Chat Recording	14
AUDIO AND VIDEO CALLS	15
Call From Your Computer	16
Call From Phone	16

	Answer Call	.16
	Contact Name Lookup for Incoming Calls	. 17
	Missed Call or Communication	.17
	Full Screen in Video Call	. 17
	Multiparty Sessions	. 17
	Call Waiting	.18
	Call Transfer	.18
	Message Waiting Indication and Voice Mail	.18
	Call Park and Retrieve	.18
	Call Pull	. 19
	Call Recording Controls	.19
	Moderator Controls	. 20
	Forced Logout	. 20
	Echo (test) Service	. 20
	Headset Support	.20
	Team Telephony (BLF List)	.21
	Executive-Assistant	. 22
	Presence Rules and Silent Alerting	. 22
	Call Center Agent Login	.23
	Remote Control Event Package	.23
	Auto-Answer	.23
A	PPLICATION OR DESKTOP SHARE	. 23
١	/IY ROOM	.24
	Guest Client	. 25

SEARCH	26
FULL ENTERPRISE DIRECTORY	28
COMMUNICATIONS HISTORY	29
XMPP SECURITY	29
WEB BUTTON	30
COMMUNICATOR ADD-IN FOR MICROSOFT SKYPE FOR BUSINESS	30
PASSWORD CHANGE	30
ACCESSIBILITY COMPLIANCE	31
PREFERENCES	31
General	31
Media	32
Audio	
Microphone	32
Video	
Services	32
Extensions	33
Advanced	33
Logging	33
Proxy	
Credentials	33
CALL SETTINGS	34
Clearspan Anywhere	34
Clearspan Remote Office	35
Forward Calls	35
Do Not Disturb	35
Hide Number	35
Simultaneous Ring Personal	
Voice Messaging	
V 1 (0) 4 - 1 (0) - 3-3 (1) (1) (1)	. 70

Anonymous Call Rejection	36
Automatic Callback	36
Call Waiting	36
SIGN OUT	37
Sign Out of Clearspan Communicator	37
Exit Application	37
MULTI-DEVICE SUPPORT	38
INSTALLATION	39
UNINSTALLATION	39
SYSTEM REQUIREMENTS	40
TROUBLESHOOTING	40
APPENDIX A: KEYBOARD SHORTCUTS FOR DESKTOP	43
APPENDIX B: GUEST CLIENT USAGE	46
APPENDIX C: SKYPE FOR BUSINESS INTEGRATION	48
On-Net Calling	48
Off-Net Calling	49
Presence Synchronization	51
APPENDIX D: USB HEADSET CONFIGURATION	52
APPENDIX E: THIRD-PARTY SOFTWARE AND COPYRIGHT	59
APPENDIX F. ACRONYMS AND ABBREVIATIONS	64

# REVISION HISTORY

REVISION NUMBER	DATE COMPLETED	POINT OF CONTACT	DESCRIPTION
2807-004	5/2017	Mitel Technical Publications, Velvet Moore	Updated for release 21.5.1.
2807-003	1/2015	Mitel Technical Publications, Velvet Moore	Updated for release 20.2.2.
2807-002	4/2014	Aastra Technical Publications, Velvet Moore	Updated for release 20.0.1.
2807-001	11/17/2008	Danielle Woelfle	Initial release of this publication.

# ABOUT CLEARSPAN COMMUNICATOR FOR **DESKTOP**

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

- Instant Messaging and Presence (optional Clearspan features)
- Voice Calling (VoIP)
- Voice Calling (Desk phone)
- Video Calling
- Desktop Sharing (optional Clearspan feature)
- Clearspan Call Settings

This document covers the three versions of Clearspan Communicator for the Desktop: Audio, Video, and Lite. The Lite version allows you to place and receive calls through your desk phone using the desktop client. The Audio version of the client adds the ability to connect audio calls through the desktop interface, and the Video version adds the ability to have video calls.

# **GETTING STARTED**

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

#### INSTALLATION

Your service provider provides the download of the installer.

#### **Windows**

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

#### os x

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

#### 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 Clearspan user name and password.
- 3. Select whether you would like Clearspan Communicator to remember your password.
- 4. Select whether you would like Clearspan 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 Clearspan 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.

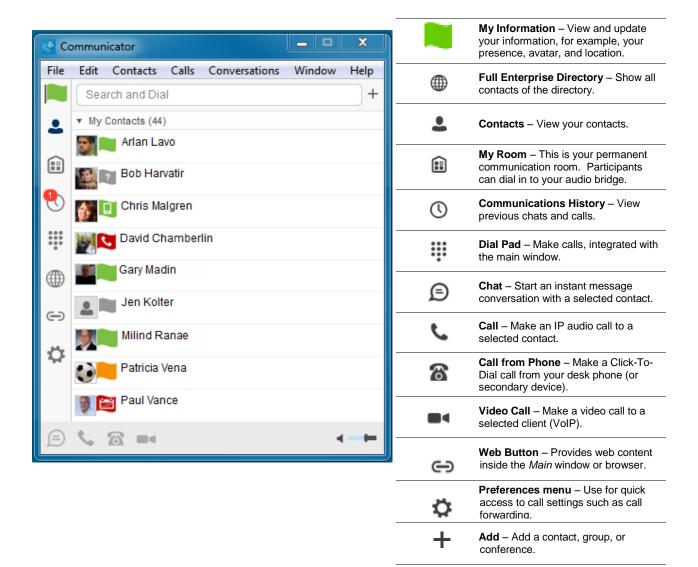
The Login window offers the last used username, but the password shall be automatically filled in only if you have checked the Save password checkbox. If multiple people use the same machine, only the last password is entered as a security measure. If you change the username in the Login window through 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 multiple desktop clients at the same time with the same account.

#### MAIN WINDOW

When you start Clearspan 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 windows open up in a cascaded fashion in the middle of the screen. The Search and Dial field allows searching for contacts as well as making calls using phone numbers or SIP URIs. SIP URIs must use the format user@domain or sip:user@domain.



#### My Information

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

#### Presence

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

#### **ICON WHAT IT MEANS**



Available. The green presence icon indicates that the user is online and ready for communication.



Away. The yellow presence icon indicates that the user is online but has been idle or away from their computer for more than ten minutes.



Busy. The red presence icon indicates that the user is busy and does not want to be disturbed.



Offline. 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 Busy - In Call status overrides the Busy - In Meeting status so this one is only seen if there is a meeting but no call.

You can set your Presence to Available, Away, Busy, and Offline. Clearspan Communicator can automatically update your presence to Busy--In a Call, Busy--In Meeting (Windows only), Available (desk phone), Available (mobile), Away on mobile, and Offline and busy in a call.

#### Location

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

## **COMMUNICATIONS WINDOW**

After starting communication with one or more contacts, a Communications window is displayed for chat and may be displayed for calls depending on your service provider settings. The call window can also be integrated with the *Main* window. From this window, 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 multiple 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 you 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.

## START CHAT

Start a chat 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 Chat.
- Right-click one or more contacts from the Contacts list or search results and click Chat.
- On the Communications History list, double-click a chat entry.
- In a Communications window, click the Chat button.

## **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.

## 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.
- Right-click one or more contacts from the *Contacts* list or search results and click the **Call, Call from Phone**, or **Video**.
- 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.

## 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  $\rightarrow$  Credentials, unless your service provider has automated provisioning in use. For more information, see the Preferences section. You can participate in desktop sharing sessions by another user even without having your own sharing credentials.

#### **ACTIVE COMMUNICATIONS**

Active communications appear at the top of the Contacts list in the main window. This area provides an easy view to see the people with whom you are communicating. By default starting in this release, 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 20.2.2 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 left click offers additional call management options for this call.

#### 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 Clearspan 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. Clearspan Communicator dials out to all participants and takes everyone off hold after the last attendee answers.

You can invite others to your room by dragging and dropping them from the Contacts list into the My Room Communications window. You can also use the right-click menu on the My Room icon in the Main window or the menu icon in 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.

My Room and Desktop Sharing are optional Clearspan features.

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

If "Use default" is selected, then Clearspan 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.

# **CONTACTS**

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.

#### **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 (+) button from the main window.

In the Add Contact dialog box, enter the contact's information and then click Add to Contact List checkmark. 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 presence request, there are two buttons for accepting and rejecting the request. Dismissing the presence 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 on 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 Contact 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.

#### **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. 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.

#### **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. 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 this release:

- 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.

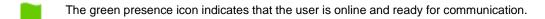
## **PRESENCE**

Instant Messaging (IM) and Presence (P) are optional Clearspan features.

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 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 曲 presence status. The Busy - In Call status overrides the Busy - In Meeting 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 Clearspan Communicator. 

18 This icon indicates that the contact is only available on a compatible desktop phone, not Clearspan Communicator.

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*  $\rightarrow$  *General* tab.

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. If the system administrator has made it configurable, you can configure location information by clicking your Presence indicator and then clicking on your location.

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 communications session is set up.

## **CHAT**

#### CHAT VIEW

Instant Messaging (IM) and Presence (P) are optional Clearspan features.

When you initiate a chat, the *Chat* 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* window and open it again, sent chat messages are shown in the window 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. If you want to use the whole area for writing, you can press the background of the information or the top bar. You can contract or expand the information of the contact during the chat and you can leave it open or closed depending on your preference.

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* window.

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.

#### FILE TRANSFER

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

 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 window.
- 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.

#### **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.

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

#### CHAT RECORDING

Chats can also be recorded as a service provider option; in this case, the client shows a recording indicator. Note that there are no end-user controls for chat recording.

## **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 Call Options menu. In the Call Options 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.
- 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.
- 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 <a href="mailto:sip:user@domain">sip:user@domain</a> in the combined Search and Dial field to make a call. Once you type your numbers, Clearspan 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.

#### CALL FROM YOUR 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 Clearspan Communicator window (search or communicate), to communicate with someone who is not on your contact list.

#### 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.

For remote calls initiated using the Clearspan 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.

#### **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.

#### CONTACT NAME LOOKUP FOR INCOMING CALLS

Clearspan Communicator performs a local contact search for incoming calls. If the number matches one of the contacts on the Clearspan 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 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, Clearspan Communicator does a lookup in the local contacts and populates the name if a match is found.

#### 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.

#### **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.

#### **MULTIPARTY SESSIONS**

You can have many participants in a call, either in a *My Room* or in an ad hoc multiparty call. 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 Clearspan

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.

## **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.

#### CALL TRANSFER

Blind call transfer is available in the Communications window; choose the Transfer Call menu item to transfer the call to someone else. 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.

## MESSAGE WAITING INDICATION AND VOICE MAIL

The Message Waiting Indication (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 right-hand corner of the main window, Clearspan Communicator calls the predefined mailbox number to allow the user to listen to the voice mail or view the video mail.

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

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.

#### 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.

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 Clearspan 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.

#### **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. 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.

#### CALL RECORDING CONTROLS

You can use call-recording controls in this release. 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 Clearspan 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.

#### 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 either 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.

#### 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. This feature allows Clearspan to track similar online client instances and only allow one of them to be online at the same time. When Clearspan notifies the client to log out, all connections are terminated and client returns to the login window.

## 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.

#### 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 *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. 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 vendorspecific 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

# TEAM TELEPHONY (BLF LIST)

Team telephony is comprised of a team telephony window showing the predefined team members and their related call states. 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.

#### **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). 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.

## PRESENCE RULES AND SILENT ALERTING

Starting with Release 21.2.0, you can combine call processing with presence statuses. For instance, "Busy" state 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
- Busv
- Away
- Offline

The following Clearspan 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.

#### 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. 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, Clearspan 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.

#### 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.

#### **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.

# APPLICATION OR DESKTOP SHARE

To share your desktop or individual application:

- 1. In the *Communications* window, 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**.
- **3.** 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.
- **4.** To stop sharing, click the **Stop** icon. While sharing, all other communications mechanisms are also available, except for video calling and file transfer.

5. 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 the ad hoc sessions. For participants without Clearspan Communicator, use the separate Desktop Share Invitation link 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 righthand corner by selecting "Show Own Video".

If you are using dual monitors, you can choose which monitor. 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.

My Room and Desktop Sharing are optional Clearspan features.

# MY ROOM

My Room is started by clicking on the My Room icon on the left-hand side of the navigation pane. My Room is started automatically using your permanent chat room. Add more participants by dragging and dropping them into the Communications window or the Conference menu, or 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.
- 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 Copy 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 Clearspan 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 Clearspan 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 Clearspan Communicator. The desktop share link, when available, allows anyone to join a desktop share session from a standard web browser. In addition, the Clearspan 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.

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.

My Room and Desktop Sharing are optional Clearspan features.

#### **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 quest 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 quest 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.

# SEARCH

Clearspan Communicator supports a search of the enterprise directory as well as the personal directory, enterprise common directory, and group common. 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.

Clearspan 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.

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 Clearspan 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 introduces 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 need to 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, Clearspan 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 Clearspan 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, Clearspan 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.

# **FULL ENTERPRISE DIRECTORY**

Clearspan Communicator allows for browsing of an entire Clearspan enterprise directory.

To view the Clearspan 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.

## COMMUNICATIONS HISTORY

The fourth icon from the top in the main window on the left 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.

Clearspan 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. The menu provides options to mark "All as viewed", "Chats as viewed", "Voicemails as viewed", and "Calls as viewed.

# XMPP SECURITY

Depending on your service provider configuration, Communicator supports blocking of unauthorized file types in file transfer in order to support service provider IT policies. 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.

## **WEB BUTTON**

As a service provider option for integrating third-party web content onto Communicator desktop, a left pane icon may be visible. When clicked, it opens predefined content either in the Main window or on a separate web browser. Both single and multiple links may be present.

In addition, local applications can be used in the links, for instance, email. This depends on your service provider configuration.

Cookies are supported starting in this release. The saved cookies are stored in cookies.dat that can be accessed from *Preferences* view → *General* tab by clicking on the **Open folder** button and navigating one directory level up. To remove old cookies, first exit Communicator, then remove the file and sign back in. Failing to exit the client results in recreating the cookies.dat with cookies from memory.

# COMMUNICATOR ADD-IN FOR MICROSOFT SKYPE FOR BUSINESS

Communicator for Desktop supports integrating with Microsoft Skype for Business (S4B). The primary intended 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.

# PASSWORD CHANGE

A dialog box automatically opens when your login password must be changed. 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.

# ACCESSIBILITY COMPLIANCE

Communicator supports accessibility compliance starting in this release by having all client features available in menus at the top of the *Main* window. The menu items are also available using the keyboard shortcuts listed in *Appendix A: Keyboard Shortcuts for Desktop*.

## **PREFERENCES**

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

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

or

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

#### **GENERAL**

#### Language

Select your language and 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. Here 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.

#### MEDIA

#### 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.

#### 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.

#### 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.

#### **SERVICES**

In this release, this section is reserved for presence rules. For more information on presence rules, see section Presence Rules and Silent Alerting.

#### **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.

#### **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 Clearspan Communicator (client) proxy settings.

#### Credentials

#### 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.

#### Clearspan ID

This is the username you use to log in.

# CALL SETTINGS

Clearspan 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
  - Clearspan Anywhere
  - Clearspan 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 Clearspan 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.

#### **CLEARSPAN ANYWHERE**

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

Clearspan 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).

Clearspan Anywhere is a premium feature.

#### **CLEARSPAN 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.

Clearspan Remote Office is a premium feature.

#### **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.

#### DO NOT DISTURB

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

#### 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*.

#### 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 Clearspan Anywhere.

#### **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.

#### 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.

#### 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.

#### **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.

# SIGN OUT

Signing out of Clearspan Communicator sets your status to "Offline" for your contacts and displays the Sign In screen.

#### SIGN OUT OF CLEARSPAN COMMUNICATOR

To sign out, follow these steps.

#### **Windows**

- 1. Click the Clearspan 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.

#### **EXIT APPLICATION**

To exit the application completely, follow these steps.

#### Windows and OS X

Close the Sign In window.

#### **Windows**

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

#### os x

- 1. Select Clearspan Communicator from the main menu.
- 2. Select Quit Clearspan 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.

# MULTI-DEVICE SUPPORT

Clearspan 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.
- A new presence subscription made in one client is recognized in another. If the contact blocks the "invitation", there are presence notifications from the server to all of the user's clients that indicate 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.

### INSTALLATION

Installer supports a number of options on Windows:

- 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 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 this release, depending on your service provider settings, the Outlook Add-in installer may be bundled together with the Communicator installer.

# UNINSTALLATION

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.

# SYSTEM REQUIREMENTS

System requirements are as follows:

- Operating system: Mac OS 10.9 Mavericks, Mac OS 10.10 Yosemite, Mac OS 10.11 El Capitan, 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 x86or equivalent at a minimum

# TROUBLESHOOTING

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

Chatting with users in other domains is possible, but depends on the domain. For instance, AastraConnect 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 gray.

#### 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?

All day meetings do not trigger a presence change to Busy – In Meeting.

To trigger the presence update, the meeting must be self-generated or accepted (tentative or fully accepted). The presence update is only triggered by appointments and meetings that are either accepted by the user or made by them.

#### 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.

#### 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. When the optional 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, if your system administrator has made it configurable.

#### 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*  $\rightarrow$  *Credentials* window, or by using autoprovisioning 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 this release. Starting in this release, 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:

When the client is started, you must accept the API connection request from the connector/add-in device.

Additionally, your client must have the feature enabled by your service provider.

# APPENDIX A: KEYBOARD SHORTCUTS FOR DESKTOP

The following table lists the currently supported keyboard shortcuts. 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.

SHORTCUTS FOR WINDOWS	SHORTCUTS FOR MAC	WHAT IT DOES
CTRL-Q	Cmd-Q	This quits the application.
CTRL+F4	Cmd-W	This closes the selected window (except for a contact card and the About window).
CTRL+C	Cmd-C	This copies selected text from Clearspan Communicator to the clipboard.
CTRL+V	Cmd-V	This pastes text from the clipboard to the location selected using the cursor in Clearspan Communicator.
CTRL+X	Cmd-X	This cuts the selected text to the clipboard.
Enter	Enter	When in the Communications window, this sends a chat message (if the Chat view is visible).
		When in the contact list, this opens a chat with the selected contact.
		When in the Communications History, 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 Preferences.
F1	Cmd-?	This opens Help.
CTRL+A	Cmd-A	This selects all text in the Chat view.
-	Cmd-H	This hides Communicator.
-	Alt-Cmd-H	This hides other windows other than Communicator.
CTRL-N	Cmd-N	This opens the Add Contact window.
Shift-CTRL-N	Shift-Cmd-N	This opens the Add Group 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.

SHORTCUTS FOR WINDOWS	SHORTCUTS FOR MAC	WHAT IT DOES
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 his room.
CTRL -6	Cmd-6	When a contact is selected, this opens an email-sending window using the default email 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.
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.

SHORTCUTS FOR WINDOWS	SHORTCUTS FOR MAC	WHAT IT DOES
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. You can also select My Room Invitations from the Conversations menu to send the guest join link.



Figure 1 Copy Guest Join Link Menu Option

2. The guest can open the link in one of the supported browsers, enter their name and password, and then click Join Room.

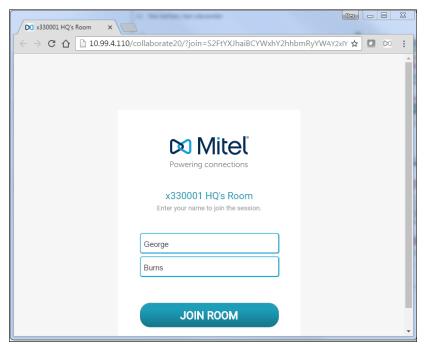


Figure 2 Login Screen for Join Room

3. Once you click on Join Room, you see a badge on your My Room icon (as shown in the following figure).

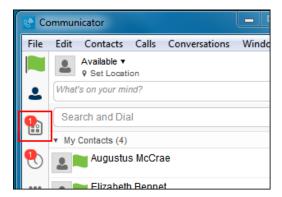


Figure 3 My Room Icon – Guest Request Badge

4. Open your My Room and accept the guest request.

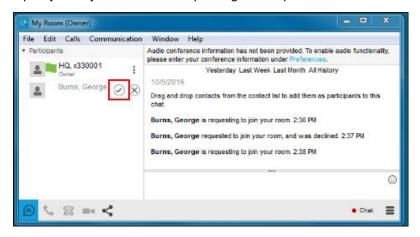


Figure 4 My Room - Accept Guest Request

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.

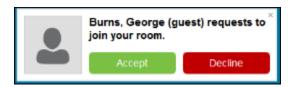


Figure 5 Accept/Decline Request Pop-Up

The guest is allowed into your room and can now participate in multi-user chat with other participants in the room.

# 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).

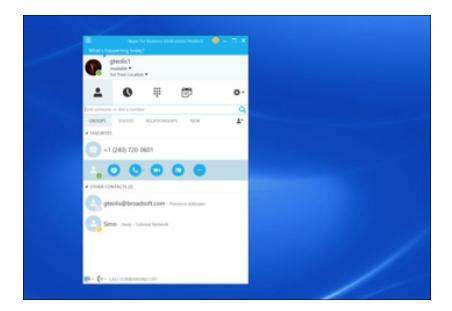


Figure 6 Making an On-Net Call

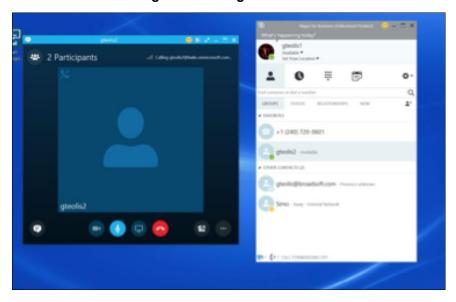


Figure 7 Ongoing On-Net Call

# **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.

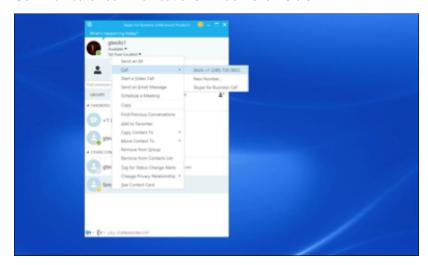


Figure 8 Making an Off-Net Call

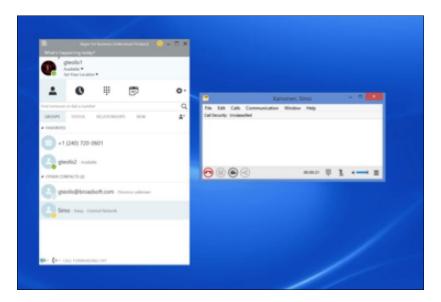


Figure 9 Ongoing Off-Net Call

#### 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: USB HEADSET CONFIGURATION

This section provides more information on configuring USB devices to function with Communicator.

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).

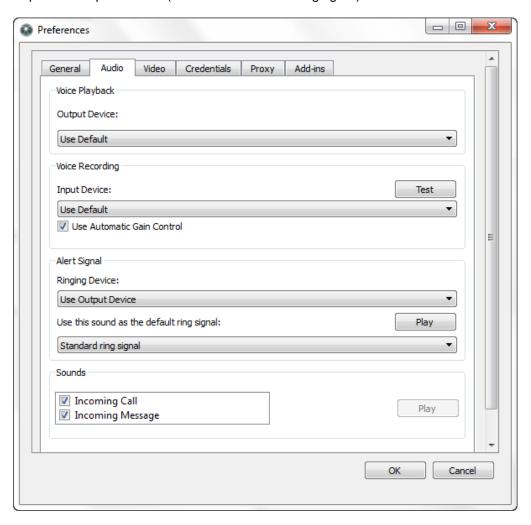


Figure 10 Preferences Window

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.

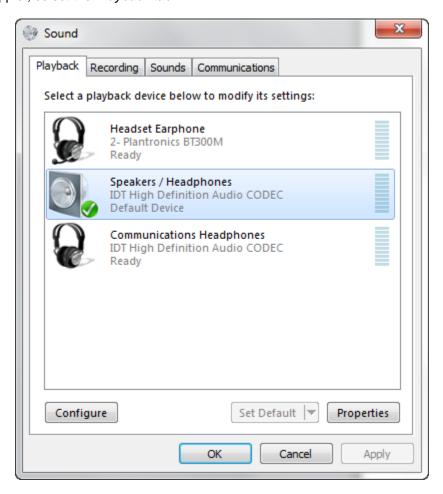


Figure 11 Sound Window - Playback Tab

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

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

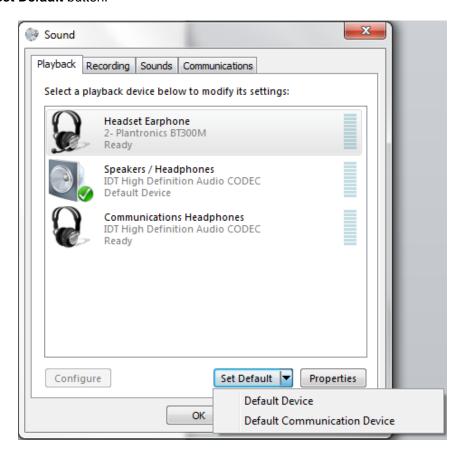


Figure 12 Sound Window - Playback Tab - Set Default

X Sound Playback Recording Sounds Communications Select a playback device below to modify its settings: Headset Earphone 2- Plantronics BT300M Default Communications Device Speakers / Headphones IDT High Definition Audio CODEC Default Device Communications Headphones IDT High Definition Audio CODEC Configure Set Default |▼ Properties OK Cancel Apply

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

Figure 13 Sound Window - Playback Tab - Default Set

Next, select the Recording tab.



Figure 14 Sound Window – Recording Tab

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.

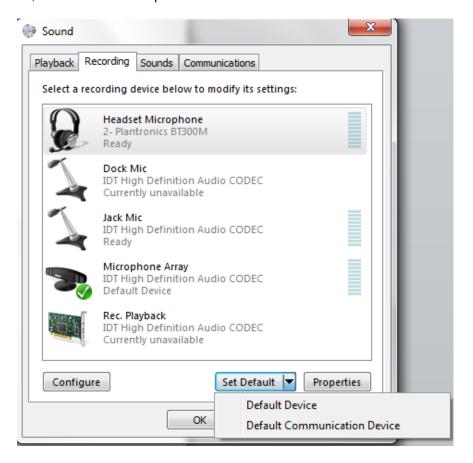


Figure 15 Sound Window - Recording Tab - Set Default

Select Default Communication Device.

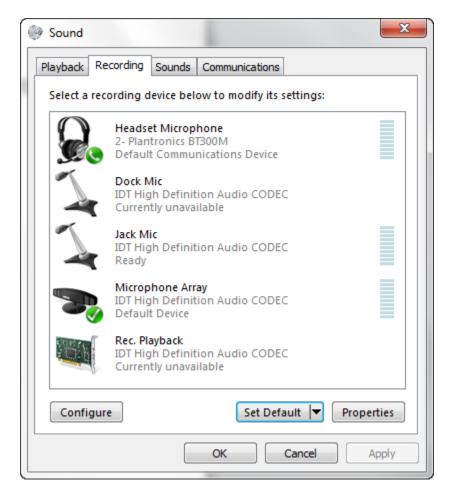


Figure 16 Sound Window – Recording Tab – Default Set

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

# APPENDIX E: THIRD-PARTY SOFTWARE AND COPYRIGHT

The following third-party software is used in Communicator.

#### Chromium

Copyright (c) 2013 The Chromium Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

\* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. \* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#### WebRTC

Copyright (c) 2011, The WebRTC project authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of Google nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)

ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#### OpenH264

Copyright (c) 2013, Cisco Systems. All rights reserved.

OpenH264 License: https://github.com/cisco/openh264/blob/master/LICENSE

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES. INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#### **Blowfish**

Based on a C implementation of the Blowfish algorithm by Paul Kocher

UUID - RFC4412

- \*\* Copyright (c) 1990 1993, 1996 Open Software Foundation, Inc.
- \*\* Copyright (c) 1989 by Hewlett-Packard Company, Palo Alto, Ca. &
- \*\* Digital Equipment Corporation, Maynard, Mass.
- \*\* Copyright (c) 1998 Microsoft.
- \*\* To anyone who acknowledges that this file is provided "AS IS" without any express or implied warranty: permission to use, copy, modify, and distribute this file for any purpose is hereby granted without fee, provided that the above copyright notices and this notice appears in all source code copies, and that none of the names of Open Software Foundation, Inc., Hewlett-Packard Company, Microsoft, or Digital Equipment Corporation be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Neither Open Software Foundation, Inc., Hewlett-Packard Company, Microsoft, nor Digital Equipment Corporation make any representations about the suitability of this software for any purpose.

\*/

#### MD5

Copyright (c) 1991-2, RSA Data Security, Inc. Created 1991. All rights reserved.

License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing this software or this function.

License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

#### SHA-1

Copyright (c) The Internet Society (2001). All Rights Reserved.

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this paragraph are included on all such copies and derivative works. However, this document itself may not be modified in any way, such as by removing the copyright notice or references to the Internet Society or other Internet organizations, except as needed for the purpose of developing Internet Standards in which case the procedures for copyrights defined in the Internet Standards process must be followed, or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and are not revoked by the Internet Society or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and THE INTERNET SOCIETY AND THE INTERNET ENGINEERING TASK FORCE DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

#### **SQLCipher**

Copyright (c) 2008-2012 Zetetic LLC

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of the ZETETIC LLC nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ZETETIC LLC "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ZETETIC LLC BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR

OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#### Lesser General Public License (LGPL)

The following third-party libraries are in use based on LGPL license.

This software uses Qt libraries licensed under the GNU Lesser General Public License (LGPL) 2.1.

Qjson - Copyright 2012 - Flavio Castelli

QXmpp – Copyright 2008-2011 The QXmpp developers

QCA - Copyright 2003-2007 Justin Karneges justin@affinix.com. Copyright 2004-2006 Brad Hards bradh@frogmouth.net

LGPL license are available at http://www.gnu.org/copyleft/lesser.html.

LGPL license is also available locally with this software, at the installation directory.

#### **BSD** license

The following software is used based on BSD license:

OpenSSL - Copyright 1998-2011. The OpenSSL Project.

License available at http://www.openssl.org/source/license.html.

Breakpad - Copyright 1998, Regents of the University of California

Breakpad license available at <a href="http://opensource.org/licenses/BSD-3-Clause">http://opensource.org/licenses/BSD-3-Clause</a>.

Stackwalker - Copyright 2009, Jochen Kalmbach

License available at <a href="http://stackwalker.codeplex.com/license">http://stackwalker.codeplex.com/license</a>.

#### Apache license 2.0

The following third-party libraries are using Apache license 2.0:

Log4cxx - Copyright 2012 Apache Software Foundation.

License available at http://logging.apache.org/log4cxx/license.html.

#### Non-restrictive license

The following third-party library is used based on its own non-restrictive license:

OpenLDAP - Copyright 2013, OpenLDAP Foundation.

OpenLDAP license is available online for review at http://www.openIdap.org/software/release/license.html.

OpenLDAP license is also available locally with this software at the installation directory.

#### Free software

The following free software is only used when third-party software is using the Communicator API via LGPL, MIT, BSD, or another license:

Tufao (LGPL2.1) - Copyright 2012 Vinicius dos Santos Oliveira vini.ipsmaker@gmail.com

Libcurl - Copyright 1996 - 2013, Daniel Stenberg, daniel@haxx.se

License available at <a href="http://curl.haxx.se/docs/copyright.html">http://curl.haxx.se/docs/copyright.html</a>.

Tinythread++ - Copyright 2012 Marcus Geelnard

License available at http://opensource.org/licenses/zlib-license.php.

Picojson – Copyright 2009-2010 Cybozu Labs, Inc. Copyright 2011 Kazuho Oku

License available at https://github.com/kazuho/picojson/blob/master/LICENSE.

Easywsclient - Copyright 2012, 2013 dhbaird@gmail.com

License available at <a href="https://github.com/dhbaird/easywsclient/blob/master/COPYING">https://github.com/dhbaird/easywsclient/blob/master/COPYING</a>.

The Qt Toolkit is Copyright (C) 2015 The Qt Company Ltd.

Contact: <a href="http://www.qt.io/licensing/">http://www.qt.io/licensing/</a>

You may use, distribute and copy the Qt GUI Toolkit under the terms of GNU Lesser General Public License version 3.

This license makes reference to version 3 of the GNU General Public License.

LGPL license are available at <a href="http://www.gnu.org/copyleft/lesser.html">http://www.gnu.org/copyleft/lesser.html</a>.

# APPENDIX F: ACRONYMS AND ABBREVIATIONS

**ACB Automatic Callback** 

API Application Programming Interface

CPU Central Processing Unit

DTMF Dual-tone multi-frequency

**ECACS Emergency Call Address Change Service** 

**EULA End-User License Agreement** 

**FAC** Feature Access Code

FAQ Frequently Asked Question

**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

RAM Random Access Memory

SIP Session Initiation Protocol

UC **Unified Communications** 

UI User Interface

URL Uniform Resource Locator

UVS Video Server

VoIP Voice over IP

WebRTC Web Real-Time Communication

XMPP Extensible Messaging and Presence Protocol

Xsi **Xtended Services Interface** 

