Peter Perkowski (SBN 199491)
peter@perkowskilegal.com
PERKOWSKI LEGAL, PC
515 S. Flower St., Suite 1800
Los Angeles, CA 90071
Tel: (213) 426-5796

Ronald M. Daignault (*pro hac vice* to be filed)*
rdaignault@daignaultiyer.com
Chandran B. Iyer (*pro hac vice* to be filed)
cbiyer@daignualtiyer.com
Oded Burger (*pro hac vice* to be filed)*
oburger@ daignaultiyer.com
DAIGNAULT IYER LLP
8618 Westwood Center Drive, Suite 150
Vienna, VA 22182
Tel: (917) 838-9795
*Not admitted to practice in Virginia

Attorneys for Plaintiff
ONSTREAM MEDIA CORPORATION

UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA

ONSTREAM MEDIA CORPORATION, *Plaintiff*, v. CARRIERX, LLC, START MEETING, LLC, and FREE CONFERENCING CORPORATION, *Defendants*.	Case No.: 2:22-cv-9245 **COMPLAINT FOR PATENT INFRINGEMENT** *Jury Trial Demanded*

Plaintiff Onstream Media Corporation ("Onstream") files this Complaint against Defendants CarrierX, LLC, Start Meeting, LLC, and Free Conferencing Corporation (individually and collectively, "CarrierX") for infringement of United States Patent Nos. 9,161,068; 9,467,728; 10,038,930; 10,200,648; 10,674,109; 10,694,142; 10,848,707; 10,951,855; and 11,128,833 (the "patents-in-suit") attached as Exhibits 1-9, respectively, and alleges as follows:

JURISDICTION

1. This action arises under the patent laws of the United States, 35 U.S.C. §§ 1 *et seq*. This Court therefore has subject matter jurisdiction under 28 U.S.C. § 1331 (federal question) and § 1338(a) (patent).

THE PARTIES

2. Onstream is a corporation organized under the laws of the State of Florida with its principal place of business at 1451 West Cypress Creek Road, No. 204, Ft. Lauderdale, Florida, 33309.

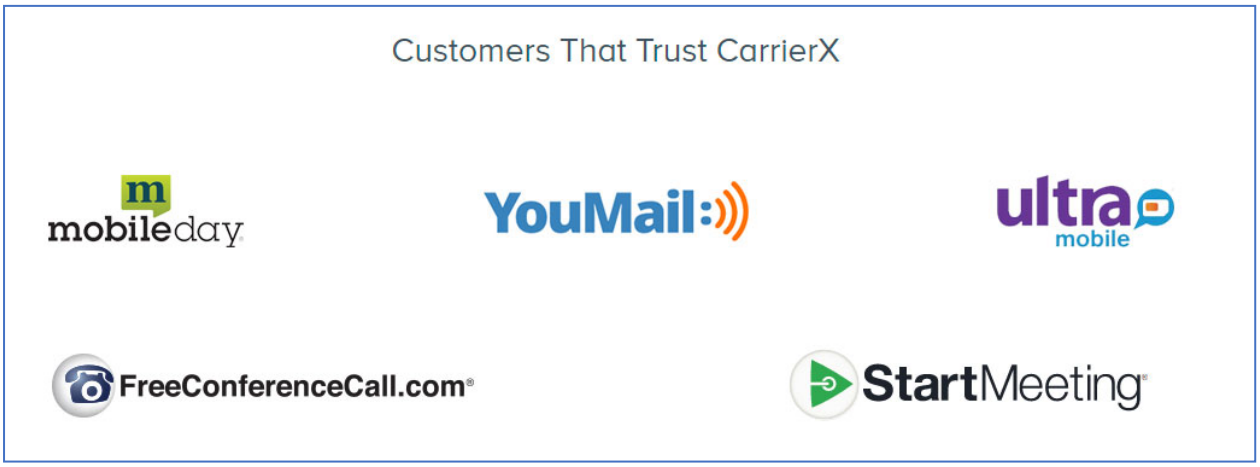
3. On information and belief, according to documents on file with the California Secretary of State, CarrierX is a limited liability company organized under the laws of the State of Delaware with its principal place of business at 4300 Pacific Coast Hwy, Long Beach, CA 90804.

4. On information and belief, according to documents on file with the California Secretary of State, CarrierX may be served with process by serving its California registered agent CT Corporation System.

5. On information and belief, according to documents on file with the California Secretary of State, Start Meeting LLC is a limited liability company organized under the laws of the State of Nevada with its principal place of business at 4300 Pacific Coast Hwy, Long Beach, CA 90804.

6. On information and belief, according to documents on file with the California Secretary of State, Free Conferencing Corporation is a corporation organized under the laws of Nevada with its principal place of business at 4300 Pacific Coast Hwy, Long Beach, CA 90804. On information and belief, Free Conferencing Corp. owns and operates FreeConferenceCall.com.

7. On information and belief, defendants act as a joint enterprise to provide video streaming services from the same place of business, with CarrierX acting as a provider to Start Meeting and Free Conferencing Corp.



See, e.g., https://www.carrierx.com/

PERSONAL JURISDICTION AND VENUE

8. This Court has personal jurisdiction over CarrierX, Start Meeting, and Free Conferencing Corp. because each of them has its principal place of business in California, in this judicial district, such that it can be said to be "at home" in this State and judicial district.

9. This Court also has personal jurisdiction over defendants in accordance with due process and/or the California Long Arm Statue because they have committed and continue to commit acts of infringement giving rise to this action in the State of California in violation of at least 35 U.S.C. § 271(a). In particular, on information and belief, CarrierX has made, used, offered to sell and/or sold infringing products, services and/or systems in the State of California.

10. On information and belief, CarrierX, directly or indirectly, designs, develops, manufactures, makes, sells, offers for sale, imports, distributes, advertises, and/or otherwise promotes the accused infringing methods, products, and services in the United States, the State of California, and this judicial district.

11. On information and belief, CarrierX has made, used, offered to sell and/or sold products and services, including the following specifically

accused products and services: (1) CarrierX Core API;[1] (2) CarrierX Conference API;[2] (3) CarrierX Conference v2 API;[3] (4) StartMeeting;[4] (5) StartMeeting Mobile Application;[5] (6) StartMeeting Web Conferencing;[6] (7) Start Meeting Video Conferencing;[7] (8) FreeConferenceCall.com Online Meetings;[8] (9) FreeConfernceCall.com Video Recording;[9] (10) FreeConferenceCall.com Mobile App;[10] (11) FreeConferenceCall.com Desktop App;[11] (12) and all other current or legacy products and services imported, made, used, sold, or offered for sale by CarrierX, Start Meeting, or Free Conferencing Corp. that operate in a substantially similar manner as the above-listed products and services (collectively and individually, the "CarrierX Products and Services").

12. On information and belief, CarrierX, as well as the hardware and software components comprising the CarrierX Products and Services and/or that enable the CarrierX Products and Services to operate—including but not limited to servers, server software, client software, front-end hardware, endpoint hardware, endpoint software, back-end hardware, encoders, transcoders, cloud-based software, and other hardware and software computer systems and components (collectively, the "CarrierX System")—infringes at least one claim of each of the patents-in-suit both literally and/or under the doctrine of equivalents.

---

[1] *See* https://www.carrierx.com/documentation/core-api
[2] *See* https://www.carrierx.com/documentation/conference-api#introduction
[3] *See* https://www.carrierx.com/documentation/conference-v2-api#introduction
[4] *See* https://www.startmeeting.com/
[5] *See* https://www.startmeeting.com/mobile-apps
[6] *See* https://www.startmeeting.com/web-conferencing
[7] *See* https://www.startmeeting.com/video-conferencing
[8] *See* https://www.freeconferencecall.com/video-conferencing
[9] *See* https://www.freeconferencecall.com/video-recording
[10] *See* https://www.freeconferencecall.com/apps
[11] *See* https://www.freeconferencecall.com/downloads

13. This Court also has personal jurisdiction over CarrierX because CarrierX has sufficient minimum contacts with this forum as a result of business conducted within the State of California and this judicial district. In particular, this Court has personal jurisdiction over CarrierX because, among other things, on information and belief CarrierX (directly and/or through its subsidiaries, affiliates, or intermediaries) has substantial, continuous, and systematic business contacts in this judicial district and derives substantial revenue from goods and services provided to individuals in the State of California and this judicial district.

14. CarrierX (directly and/or through its subsidiaries, affiliates, or intermediaries) has purposefully availed itself of the privileges of conducting business within the State of California and in this judicial district, has established sufficient minimum contacts with this judicial district such that it should reasonably and fairly anticipate being hauled into court in this judicial district, has purposefully directed activities at residents of this judicial district, and at least a portion of the patent infringement claims alleged in this Complaint arise out of or are related to one or more of the foregoing activities.

15. Venue is proper pursuant to 28 U.S.C. §§ 1391(b), (c), (d) and/or 1400(b), at least because each of CarrierX, Start Meeting, and Free Conferencing Corp. have their principal place of business in California and this judicial district and, therefore, reside in this judicial district.

BACKGROUND FACTS

United States Patent No. 9,161,068

16. On October 13, 2015, the United States Patent and Trademark Office ("USPTO") duly and legally issued United States Patent No. 9,161,068 ("the '068 patent") entitled "Remotely Accessed Virtual Recording Room" to inventor Gregory Duane Ellis.

17. The '068 patent is presumed valid under 35 U.S.C. § 282.

18. Onstream owns all rights, title, and interest in the '068 patent.

19. On information and belief, Onstream has not granted CarrierX an approval, an authorization, or a license to the rights under the '068 patent.

20. The '068 patent relates to, among other things, an audio and video stream recording, storage, and delivery system.

21. The claimed invention(s) of the '068 patent sought to solve problems with, and improve upon, existing audio and video recording, storage, delivery systems. For example, the '068 patent states:

> Unfortunately, new systems and methods for increasing the capabilities of online business-related communications and transactions often result in increased intellectual complexity and/or increased computer system requirements. This tendency is undesirable because another main avenue for increasing the productively of online business-related communications and transactions is to increase the number of people who are participating in these online business-related transactions.

See '068 Specification at col. 1, ll. 31-39.

22. The '068 patent then states:

> Accordingly, it would be highly valuable if any new systems and methods for increasing the capabilities of online business-related communications and transactions also could be simple enough to help attract new users to the online business market and also not have extensive computer system requirements.

See '068 Specification at col. 1, ll. 39-44.

23. The '068 patent then also states:

> Accordingly, there has been a long existing need for a system that improves the level of communication possible with respect to online business-related transactions. Further, there is a continuing need for an improved system and/or method that is simple, efficient, and does not have extensive computer system requirements. Accordingly, those skilled in the art have long recognized the need for a system and method that addresses these and other issues.

See '068 Specification at col. 1, ll. 45-52.

24. The invention(s) claimed in the '068 patent solves various technological problems inherent in the then-existing audio and video recording, storage, and delivery systems and enables audio and video recording, storage, and delivery systems to, among other things, (1) function more efficiently, (2) lower the required level of expertise for users of such systems, (3) avoid the need to install and burden front end computer and electronic devices with additional software, (4) reduce or eliminate entirely the need for local memory storage devices and other specialized recording equipment, and (5) reduce or eliminate other hardware and software requirements inherent in prior art audio and video recording and distribution systems.

United States Patent No. 9,467,728

25. On October 11, 2016, the USPTO duly and legally issued United States Patent No. 9,467,728 ("the '728 patent") entitled "Remotely Accessed Virtual Recording Room" to inventor Gregory Ellis.

26. The '728 patent is presumed valid under 35 U.S.C. § 282.

27. Onstream owns all rights, title, and interest in the '728 patent.

28. Onstream has not granted CarrierX an approval, an authorization or a license to the rights under the '728 patent.

29. The '728 patent relates to, among other things, an audio and video stream recording, storage, and delivery system.

30. The specification of the '728 patent is the same as the '068 patent specification, and solves the problems recited above and described in the '728 patent specification.

United States Patent No. 10,038,930

31. On July 31, 2018, the USPTO duly and legally issued United States Patent No. 10,038,930 ("the '930 patent") entitled "Remotely Accessed Virtual Recording Room" to inventor Gregory Duane Ellis.

32. The '930 patent is presumed valid under 35 U.S.C. § 282.

33. Onstream owns all rights, title, and interest in the '930 patent.

34. Onstream has not granted CarrierX an approval, an authorization or a license to the rights under the '930 patent.

35. The '930 patent relates to, among other things, an audio and video stream recording, storage, and delivery system.

36. The specification of the '930 patent is the same as the '068 patent specification, and solves the problems recited above and described in the '930 patent specification.

United States Patent No. 10,200,648

37. On February 5, 2019, the USPTO duly and legally issued United States Patent No. 10,200,648 ("the '648 patent") entitled "Remotely Accessed Virtual Recording Room" to inventor Gregory Duane Ellis.

38. The '648 patent is presumed valid under 35 U.S.C. § 282.

39. Onstream owns all rights, title, and interest in the '648 patent.

40. Onstream has not granted CarrierX an approval, an authorization or a license to the rights under the '648 patent.

41. The '648 patent relates to, among other things, an audio and video stream recording, storage, and delivery system.

42. The specification of the '648 patent is the same as the '068 patent specification, and solves the problems recited above and described in the '648 patent specification.

United States Patent No. 10,674,109

43. On June 2, 2020, the USPTO duly and legally issued United States Patent No. 10,674,109 ("the '109 patent") entitled "Remotely Accessed Virtual Recording Room" to inventor Gregory Duane Ellis.

44. The '109 patent is presumed valid under 35 U.S.C. § 282.

45. Onstream owns all rights, title, and interest in the '109 patent.

46. Onstream has not granted CarrierX an approval, an authorization or a license to the rights under the '109 patent.

47. The '109 patent relates to, among other things, an audio and video stream recording, storage and delivery system.

48. The specification of the '109 patent is the same as the '068 patent specification, and addresses and solves the problems recited above and described in the '109 patent specification.

United States Patent No. 10,694,142

49. On June 23, 2020, the USPTO duly and legally issued United States Patent No. 10,694,142 ("the '142 patent") entitled "Remotely Accessed Virtual Recording Room" to inventor Gregory Duane Ellis.

50. The '142 patent is presumed valid under 35 U.S.C. § 282.

51. Onstream owns all rights, title, and interest in the '142 patent.

52. Onstream has not granted CarrierX an approval, an authorization or a license to the rights under the '142 patent.

53. The '142 patent relates to, among other things, an audio and video stream recording, storage and delivery system.

54. The specification of the '142 patent is the same as the '068 patent specification, and addresses and solves the problems recited above and described in the '142 patent specification.

United States Patent No. 10,848,707

55. On November 24, 2020, the USPTO duly and legally issued United States Patent No. 10,848,707 ("the '707 patent") entitled "Remotely Accessed Virtual Recording Room" to inventor Gregory Duane Ellis.

56. The '707 patent is presumed valid under 35 U.S.C. § 282.

57. Onstream owns all rights, title, and interest in the '707 patent.

58. Onstream has not granted CarrierX an approval, an authorization or a license to the rights under the '707 patent.

59. The '707 patent relates to, among other things, an audio and video stream recording, storage and delivery system.

60. The specification of the '707 patent is the same as the '068 patent specification, and addresses and solves the problems recited above and described in the '707 patent specification.

United States Patent No. 10,951,855

61. On March 16, 2021, the USPTO duly and legally issued United States Patent No. 10,951,855 ("the '855 patent") entitled "Remotely Accessed Virtual Recording Room" to inventor Gregory Duane Ellis.

62. The '855 patent is presumed valid under 35 U.S.C. § 282.

63. Onstream owns all rights, title, and interest in the '855 patent.

64. Onstream has not granted CarrierX an approval, an authorization or a license to the rights under the '855 patent.

65. The '855 patent relates to, among other things, an audio and video stream recording, storage and delivery system.

66. The specification of the '855 patent is the same as the '068 patent specification, and addresses and solves the problems recited above and described in the '855 patent specification.

United States Patent No. 11,128,833

67. On September 21, 2021, the USPTO duly and legally issued United States Patent No. 11,128,833 ("the '833 patent") entitled "Remotely Accessed Virtual Recording Room" to inventor Gregory Duane Ellis.

68. The '833 patent is presumed valid under 35 U.S.C. § 282.

69. Onstream owns all rights, title, and interest in the '833 patent.

70. Onstream has not granted CarrierX an approval, an authorization or a license to the rights under the '833 patent.

71. The '833 patent relates to, among other things, an audio and video stream recording, storage and delivery system.

72. The specification of the '833 patent is the same as the '068 patent specification, and it addresses and solves the problems recited above and described in the '833 patent specification.

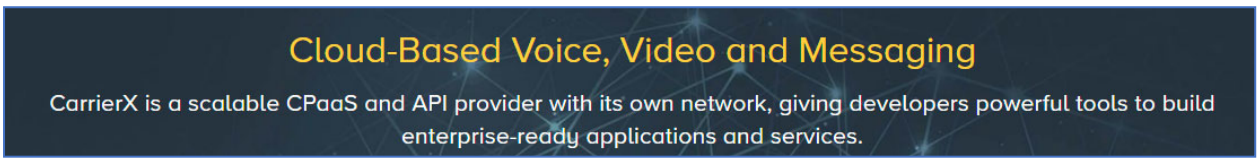
CLAIMS FOR RELIEF

Count I – Infringement of United States Patent No. 9,161,068

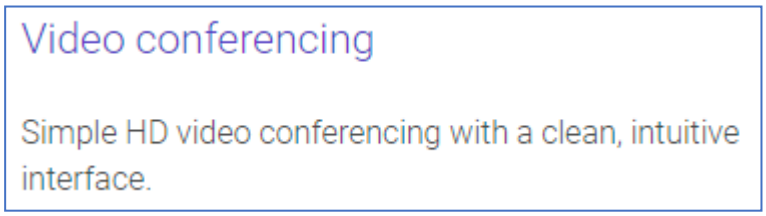
73. Onstream repeats, realleges, and incorporates by reference, as if fully set forth here, the allegations of the preceding paragraphs above.

74. On information and belief, CarrierX (or those acting on its behalf) makes, uses, sells, imports and/or offers to sell the CarrierX Products and Services; and makes, uses, sells, sells access to, imports, offers to sell and/or offers to sell access to the CarrierX System in the United States that infringe (literally and/or under the doctrine of equivalents) at least claim 1 of the '068 patent.

75. On information and belief, one or more components of the CarrierX System employs and provides a method that records audio and video material over an Internet browser connection established between a user front end and a host back end.

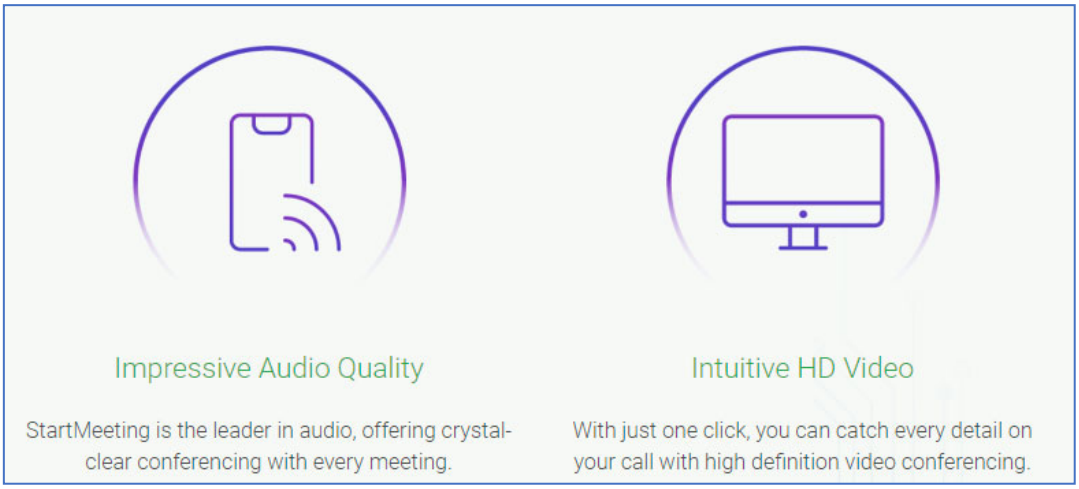


See e.g., https://www.carrierx.com/

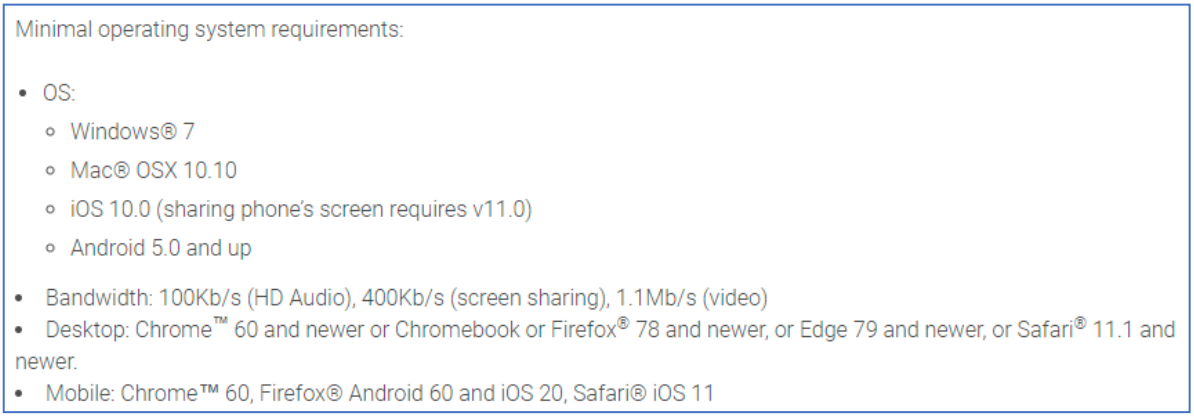


See e.g., https://www.startmeeting.com/conference-features

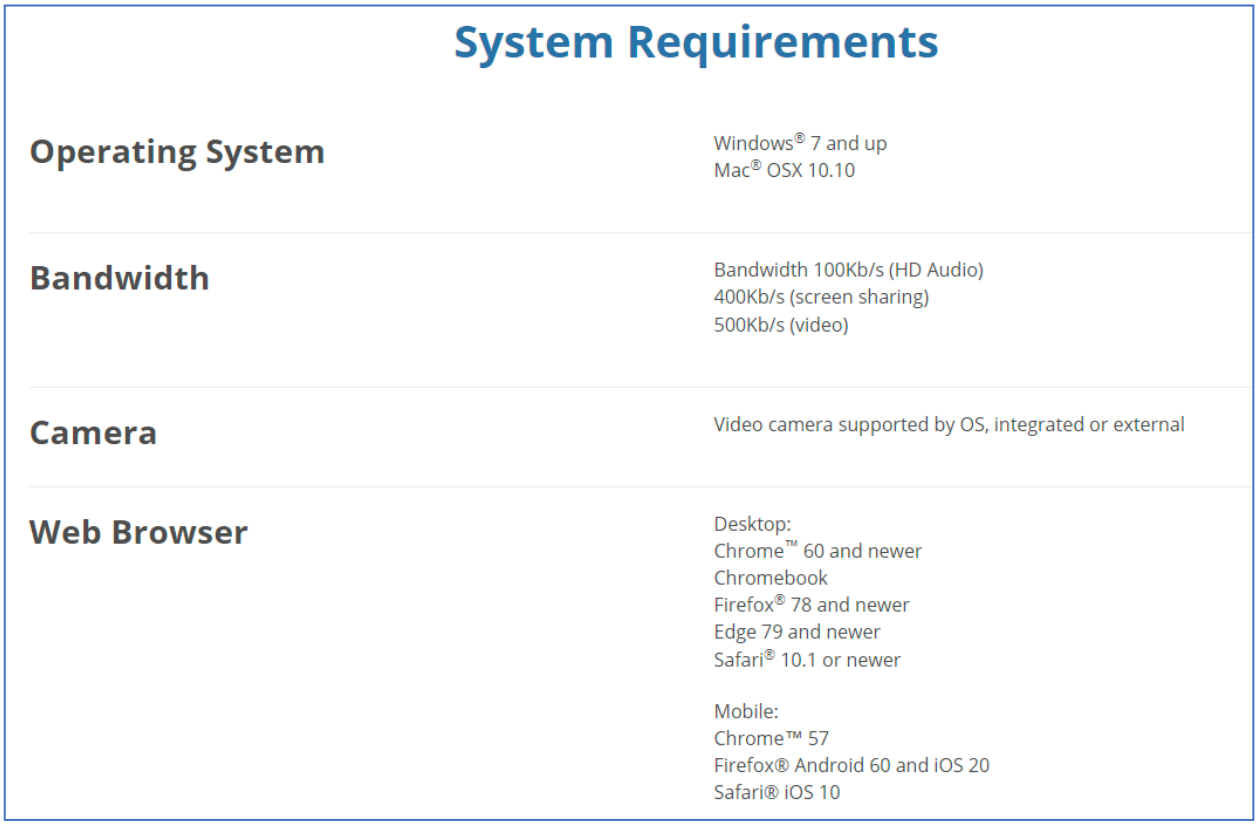
See e.g., https://www.freeconferencecall.com/



See e.g., https://www.startmeeting.com/



See e.g., https://www.startmeeting.com/support

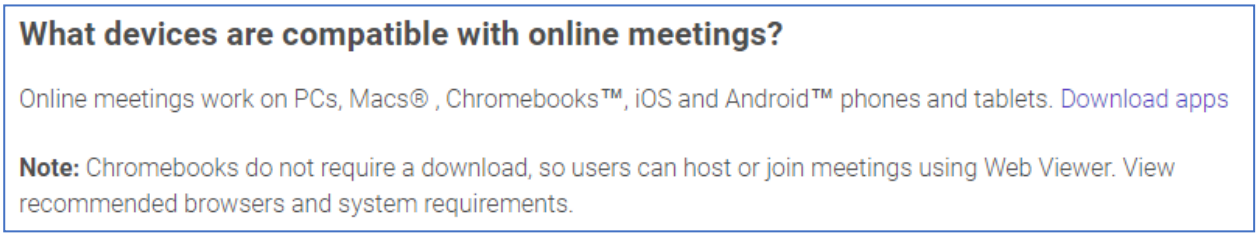


System Requirements

Operating System	Windows® 7 and up Mac® OSX 10.10
Bandwidth	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
Camera	Video camera supported by OS, integrated or external
Web Browser	Desktop: Chrome™ 60 and newer Chromebook Firefox® 78 and newer Edge 79 and newer Safari® 10.1 or newer Mobile: Chrome™ 57 Firefox® Android 60 and iOS 20 Safari® iOS 10

See e.g., https://www.freeconferencecall.com/video-conferencing

76. On information and belief, when a user wants to begin streaming using the CarrierX Products and Services, servers of the CarrierX System deliver a code, which can be executed by a browser. *See e.g., Id.*



What devices are compatible with online meetings?

Online meetings work on PCs, Macs® , Chromebooks™, iOS and Android™ phones and tablets. Download apps

Note: Chromebooks do not require a download, so users can host or join meetings using Web Viewer. View recommended browsers and system requirements.

See e.g., https://www.startmeeting.com/support

77. On information and belief, one or more components of the CarrierX System delivers a code that enables the streaming of audio and video material. *See e.g., Id.*

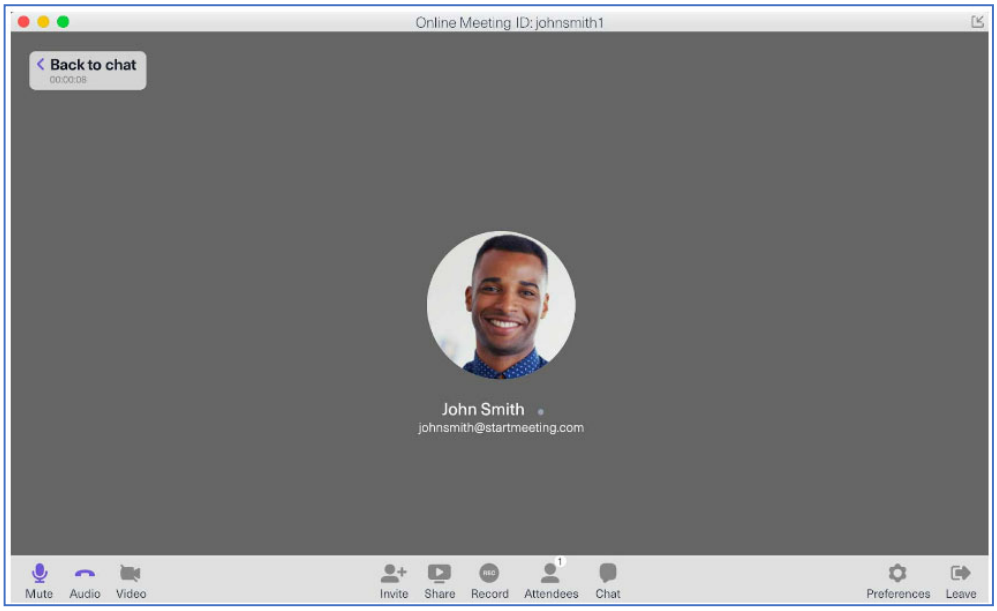
///

///

How to video conference:

1. Click **Camera** on the Meeting Dashboard.
2. Choose to dial in over the telephone or through VoIP on your computer.
3. Video is live once the Camera turns green.

See e.g., https://www.startmeeting.com/host-instructions



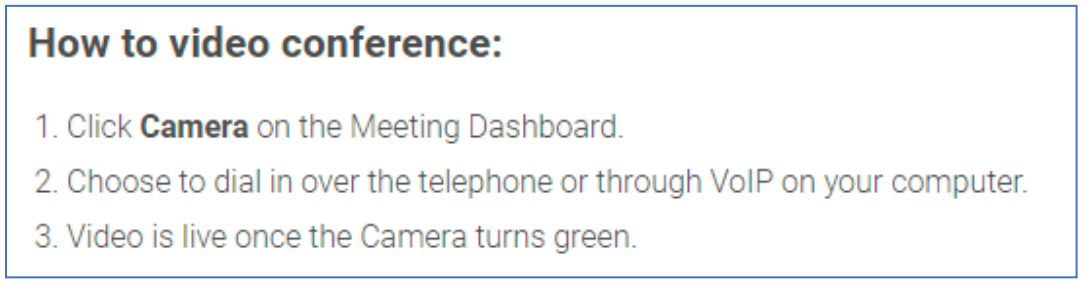
See e.g., https://www.startmeeting.com/user-guide

78. On information and belief, one or more components of the CarrierX System delivers a browser-executable-code that is a browser independent recording application that initiates the audio and video stream to be recorded. *See e.g., Id.*

Minimal operating system requirements:

- OS:
  - Windows® 7
  - Mac® OSX 10.10
  - iOS 10.0 (sharing phone's screen requires v11.0)
  - Android 5.0 and up
- Bandwidth: 100Kb/s (HD Audio), 400Kb/s (screen sharing), 1.1Mb/s (video)
- Desktop: Chrome™ 60 and newer or Chromebook or Firefox® 78 and newer, or Edge 79 and newer, or Safari® 11.1 and newer.
- Mobile: Chrome™ 60, Firefox® Android 60 and iOS 20, Safari® iOS 11

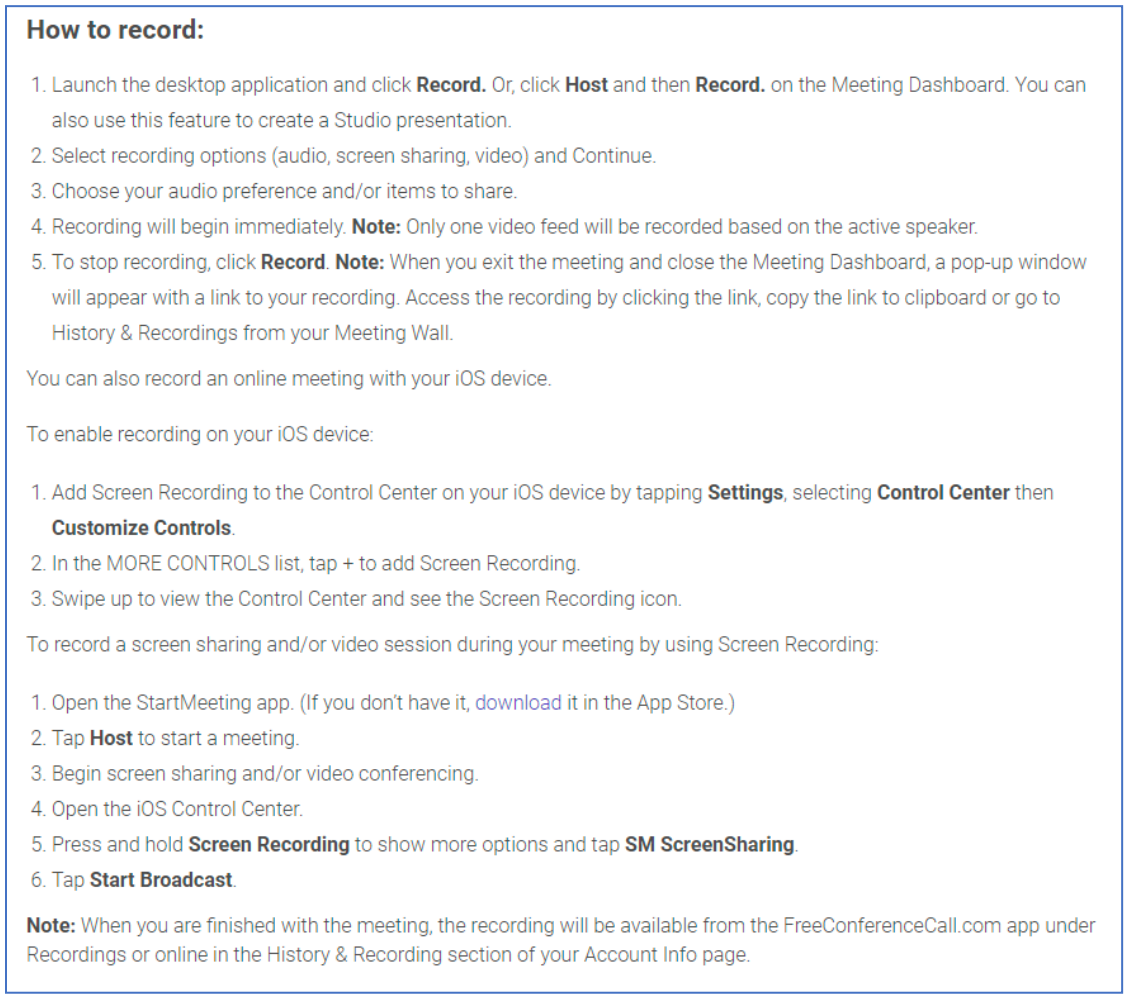
See e.g., https://www.startmeeting.com/support



How to video conference:

1. Click **Camera** on the Meeting Dashboard.
2. Choose to dial in over the telephone or through VoIP on your computer.
3. Video is live once the Camera turns green.

See e.g., https://www.startmeeting.com/host-instructions



How to record:

1. Launch the desktop application and click **Record.** Or, click **Host** and then **Record.** on the Meeting Dashboard. You can also use this feature to create a Studio presentation.
2. Select recording options (audio, screen sharing, video) and Continue.
3. Choose your audio preference and/or items to share.
4. Recording will begin immediately. **Note:** Only one video feed will be recorded based on the active speaker.
5. To stop recording, click **Record**. **Note:** When you exit the meeting and close the Meeting Dashboard, a pop-up window will appear with a link to your recording. Access the recording by clicking the link, copy the link to clipboard or go to History & Recordings from your Meeting Wall.

You can also record an online meeting with your iOS device.

To enable recording on your iOS device:

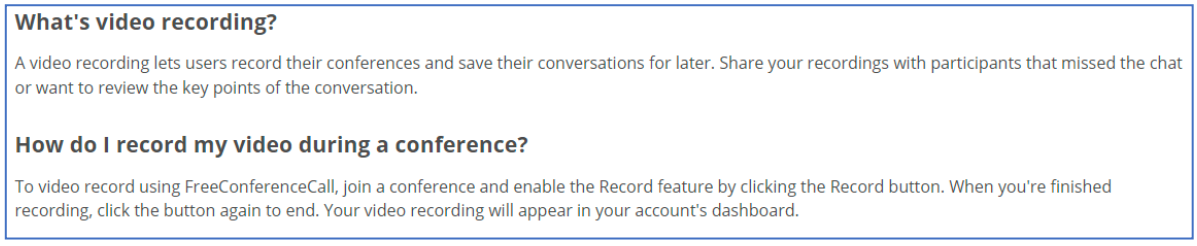
1. Add Screen Recording to the Control Center on your iOS device by tapping **Settings**, selecting **Control Center** then **Customize Controls**.
2. In the MORE CONTROLS list, tap + to add Screen Recording.
3. Swipe up to view the Control Center and see the Screen Recording icon.

To record a screen sharing and/or video session during your meeting by using Screen Recording:

1. Open the StartMeeting app. (If you don't have it, download it in the App Store.)
2. Tap **Host** to start a meeting.
3. Begin screen sharing and/or video conferencing.
4. Open the iOS Control Center.
5. Press and hold **Screen Recording** to show more options and tap **SM ScreenSharing**.
6. Tap **Start Broadcast**.

Note: When you are finished with the meeting, the recording will be available from the FreeConferenceCall.com app under Recordings or online in the History & Recording section of your Account Info page.

See e.g., https://www.startmeeting.com/host-instructions



What's video recording?

A video recording lets users record their conferences and save their conversations for later. Share your recordings with participants that missed the chat or want to review the key points of the conversation.

How do I record my video during a conference?

To video record using FreeConferenceCall, join a conference and enable the Record feature by clicking the Record button. When you're finished recording, click the button again to end. Your video recording will appear in your account's dashboard.

See e.g., https://www.freeconferencecall.com/video-recording

79. On information and belief, one or more components of the CarrierX System delivers a code that is executed though a browser at the user front end. *See e.g., Id.*

Minimal operating system requirements:

- OS:
  - Windows® 7
  - Mac® OSX 10.10
  - iOS 10.0 (sharing phone's screen requires v11.0)
  - Android 5.0 and up
- Bandwidth: 100Kb/s (HD Audio), 400Kb/s (screen sharing), 1.1Mb/s (video)
- Desktop: Chrome™ 60 and newer or Chromebook or Firefox® 78 and newer, or Edge 79 and newer, or Safari® 11.1 and newer.
- Mobile: Chrome™ 60, Firefox® Android 60 and iOS 20, Safari® iOS 11

See e.g., https://www.startmeeting.com/support

System Requirements

Operating System	Windows® 7 and up Mac® OSX 10.10
Bandwidth	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
Camera	Video camera supported by OS, integrated or external
Web Browser	Desktop: Chrome™ 60 and newer Chromebook Firefox® 78 and newer Edge 79 and newer Safari® 10.1 or newer Mobile: Chrome™ 57 Firefox® Android 60 and iOS 20 Safari® iOS 10

See e.g., https://www.freeconferencecall.com/video-conferencing

80. On information and belief, one or more components of the CarrierX System uses an Internet connection. *See e.g., Id.*

81. On information and belief, one or more components of the CarrierX System uses and provides a method that does not require transmission of a complete audio and video file from the user front end. Rather, on information and belief, a stream of audio and video material is transmitted to the servers of the CarrierX System as the audio and video material is being captured. *See e.g., Id.*

How to record:

1. Launch the desktop application and click **Record.** Or, click **Host** and then **Record.** on the Meeting Dashboard. You can also use this feature to create a Studio presentation.
2. Select recording options (audio, screen sharing, video) and Continue.
3. Choose your audio preference and/or items to share.
4. Recording will begin immediately. **Note:** Only one video feed will be recorded based on the active speaker.
5. To stop recording, click **Record**. **Note:** When you exit the meeting and close the Meeting Dashboard, a pop-up window will appear with a link to your recording. Access the recording by clicking the link, copy the link to clipboard or go to History & Recordings from your Meeting Wall.

You can also record an online meeting with your iOS device.

To enable recording on your iOS device:

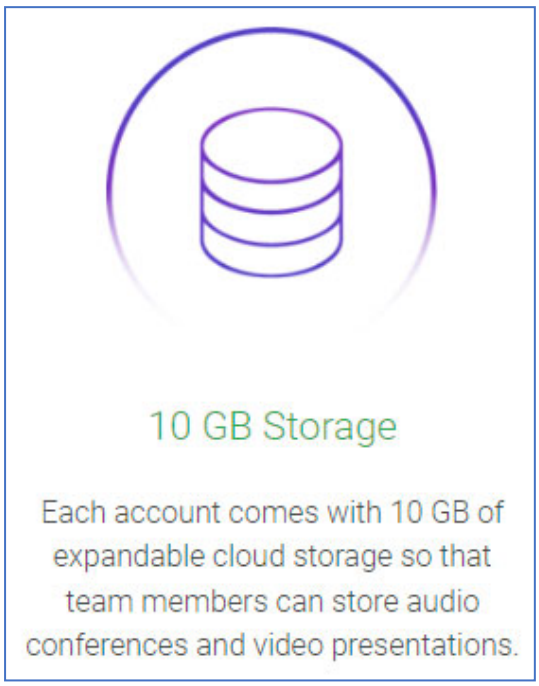
1. Add Screen Recording to the Control Center on your iOS device by tapping **Settings**, selecting **Control Center** then **Customize Controls**.
2. In the MORE CONTROLS list, tap + to add Screen Recording.
3. Swipe up to view the Control Center and see the Screen Recording icon.

To record a screen sharing and/or video session during your meeting by using Screen Recording:

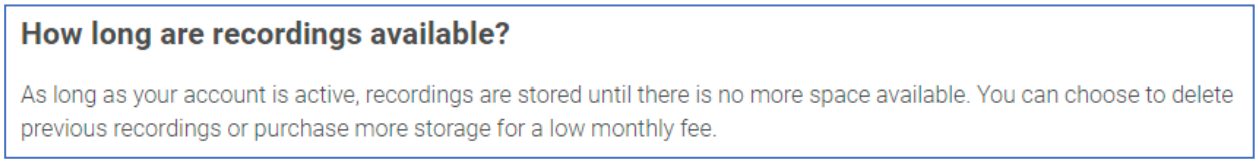
1. Open the StartMeeting app. (If you don't have it, download it in the App Store.)
2. Tap **Host** to start a meeting.
3. Begin screen sharing and/or video conferencing.
4. Open the iOS Control Center.
5. Press and hold **Screen Recording** to show more options and tap **SM ScreenSharing**.
6. Tap **Start Broadcast**.

Note: When you are finished with the meeting, the recording will be available from the FreeConferenceCall.com app under Recordings or online in the History & Recording section of your Account Info page.

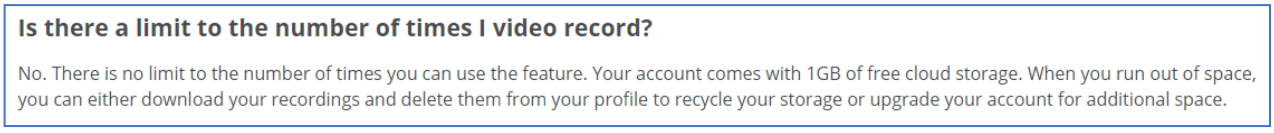
See e.g., https://www.startmeeting.com/host-instructions



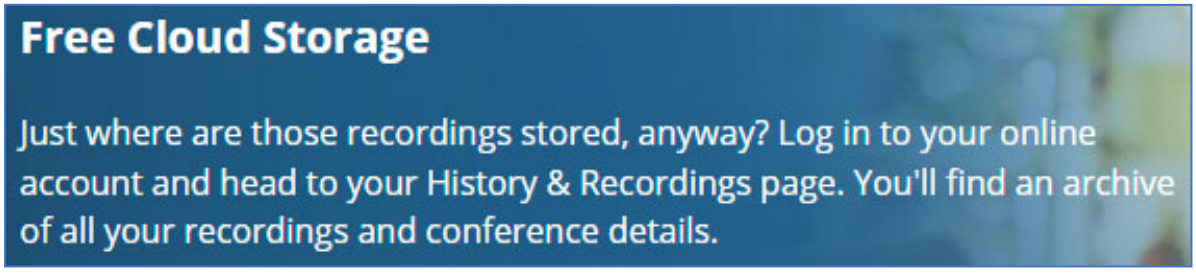
See e.g., https://www.startmeeting.com/conference-features



See e.g., https://www.startmeeting.com/support



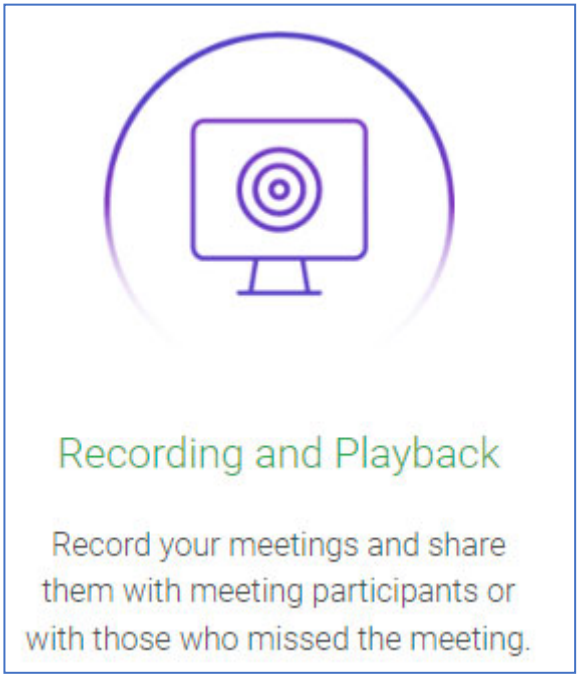
See e.g., https://www.freeconferencecall.com/video-recording



See e.g., https://www.freeconferencecall.com/video-recording

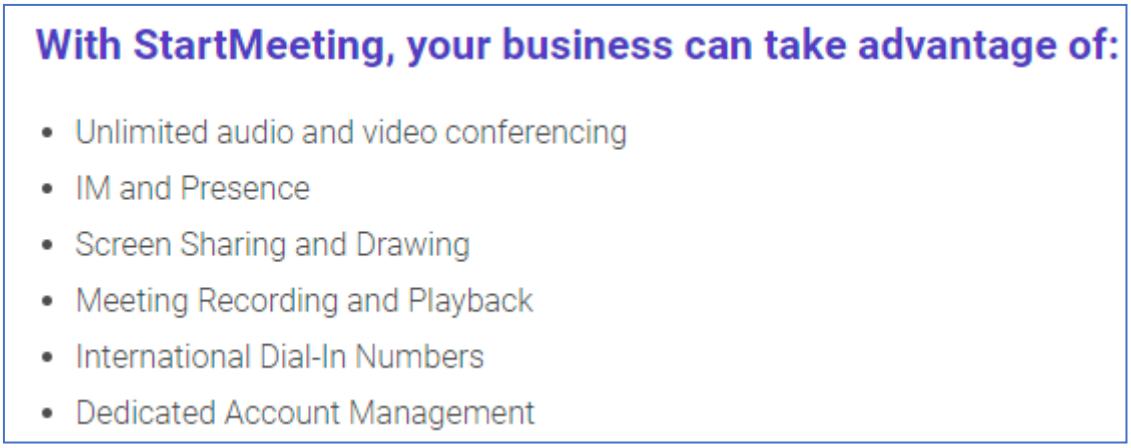
82. On information and belief, one or more components of the CarrierX System uses and provides a method wherein the audio and video

recordings are made and stored on the host back end as a complete file. *See e.g., Id.*



See e.g., https://www.startmeeting.com/conference-features

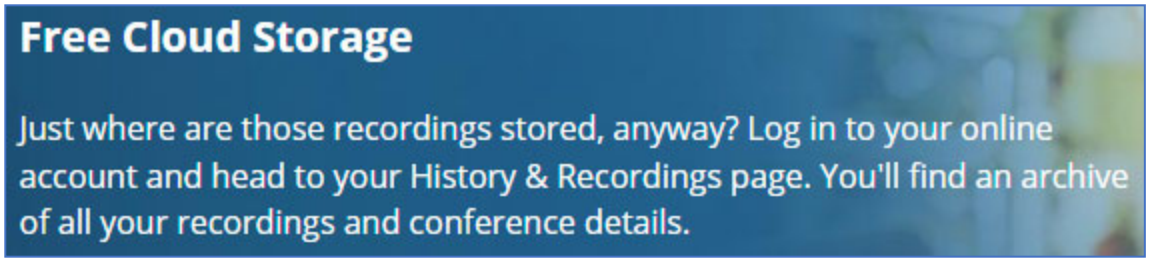
83. On information and belief, one or more components of the CarrierX System uses and provides a method wherein after the recording of audio and video material is complete, CarrierX provides access to the entire audio and video recording. *See e.g., Id.*



See e.g., https://www.startmeeting.com/enterprise

Note: When you are finished with the meeting, the recording will be available from the FreeConferenceCall.com app under Recordings or online in the History & Recording section of your Account Info page.

See e.g., https://www.startmeeting.com/host-instructions



See e.g., https://www.freeconferencecall.com/video-recording

84. On information and belief, one or more components of the CarrierX System uses and provides a method wherein audio and video material is captured without using any recording software installed on the user front end.

What devices are compatible with online meetings?

Online meetings work on PCs, Macs® , Chromebooks™, iOS and Android™ phones and tablets. Download apps

Note: Chromebooks do not require a download, so users can host or join meetings using Web Viewer. View recommended browsers and system requirements.

See e.g., https://www.startmeeting.com/support

///

///

Web Viewer

What is Web Viewer?

Web Viewer allows participants to join online meetings with their web browsers instead of joining via the StartMeeting desktop application. No download is necessary.

Can I host a meeting using Web Viewer?

At this time, only Chromebook supports full host functionality through Web Viewer, including VoIP audio, video and screen sharing. Using the Meeting Dashboard, Chromebook users are also able to: record, select mute modes, chat and more. For details, refer to Host Instructions.

What features are available to participants with Web Viewer?

Participants can join a meeting with VoIP audio and video conferencing and view screen sharing. Participants are able to send and receive chat messages, view participants and mute/unmute their own lines.

What if participants have the StartMeeting desktop application downloaded?

If participants have the StartMeeting desktop application installed, the system will automatically detect and launch the application.

Which browsers support online meetings?

We recommend that participants join using Chrome™ 60 and newer or Chromebook or Firefox® 78 and newer. These browsers support VoIP audio, multi-feed video and viewing screen sharing. Edge 79 and newer and Safari® 11.1 and newer support viewing screen sharing only.

How do I join a video conference through my web browser?

When using Firefox, Chrome or Chromebook, click the camera that appears in the toolbar. A pop-up will appear requesting access to the camera and microphone. Allow access to start video conferencing.

See e.g., https://www.startmeeting.com/support

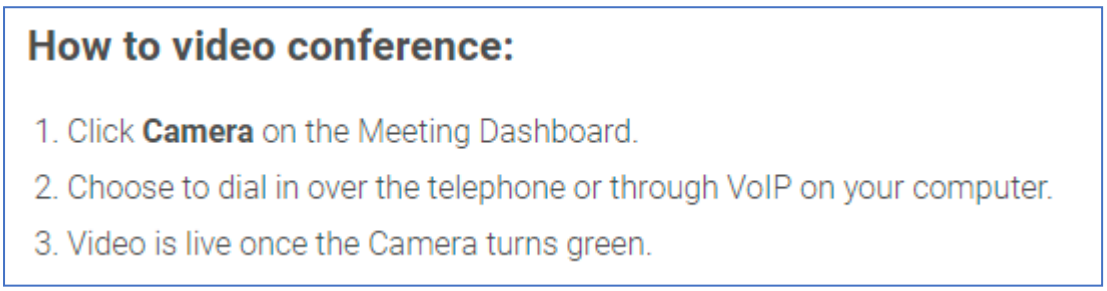
Click here to join a limited version of the meeting via web

See e.g., https://www.startmeeting.com/profile/account-info-sign-up

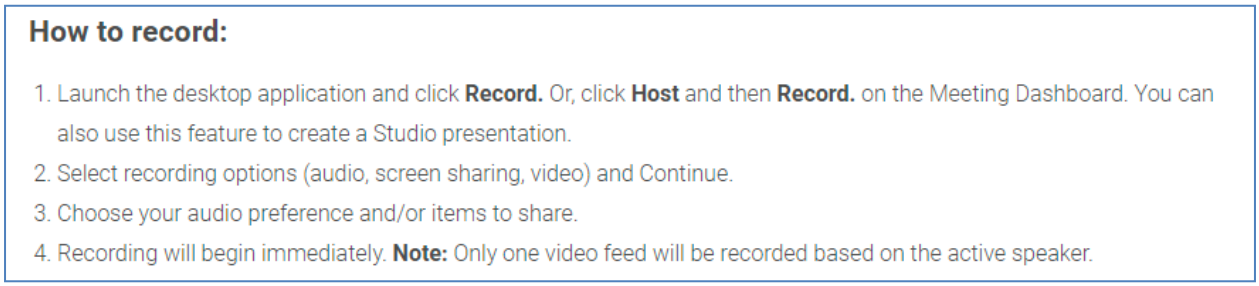
• Screen sharing tools allow users to share a specific app, window, or their entire screen with other participants, without requiring any software downloads.

See e.g., https://www.getapp.com/it-communications-software/a/startmeeting/

85. On information and belief, one or more components of the CarrierX System employs and provides a method wherein audio and video material is streamed over the Internet as the audio and video material is captured by a recording device.



See e.g., https://www.startmeeting.com/host-instructions



See e.g., https://www.startmeeting.com/host-instructions

86. On information and belief, CarrierX directly infringes at least claim 1 of the '068 patent and is in violation of 35 U.S.C. § 271(a) by making, using, selling, importing, and/or offering to sell the CarrierX Products and Services; and making, using, selling, selling access to, importing, offering for sale, and/or offering to sell access to the CarrierX System.

87. CarrierX's direct infringement has damaged Onstream and caused it to suffer and continue to suffer irreparable harm and damages.

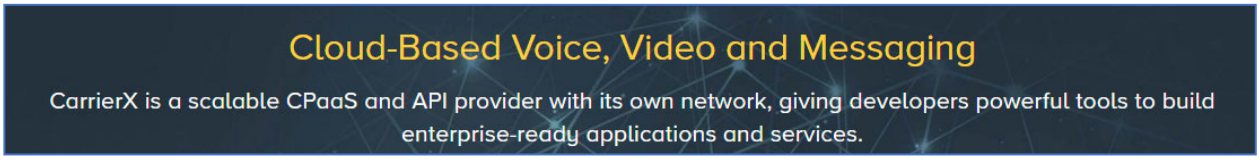
Count II – Infringement of United States Patent No. 9,467,728

88. Onstream repeats, realleges, and incorporates by reference, as if fully set forth here, the allegations of the preceding paragraphs above.

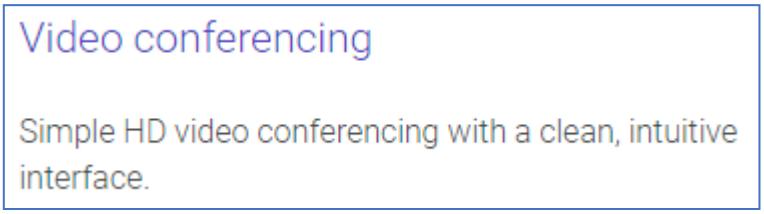
89. On information and belief, CarrierX (or those acting on its behalf) makes, uses, sells, imports and/or offers to sell the CarrierX Products and

Services; and makes, uses, sells, sells access to, imports, offers to sell and/or offers to sell access to the CarrierX System in the United States that infringe (literally and/or under the doctrine of equivalents) at least claim 1 of the '728 patent.

90. On information and belief, one or more components of the CarrierX System employs and provides an Internet-based recording method for recording audio and video material over an Internet connection established between a user front end and a host back end.

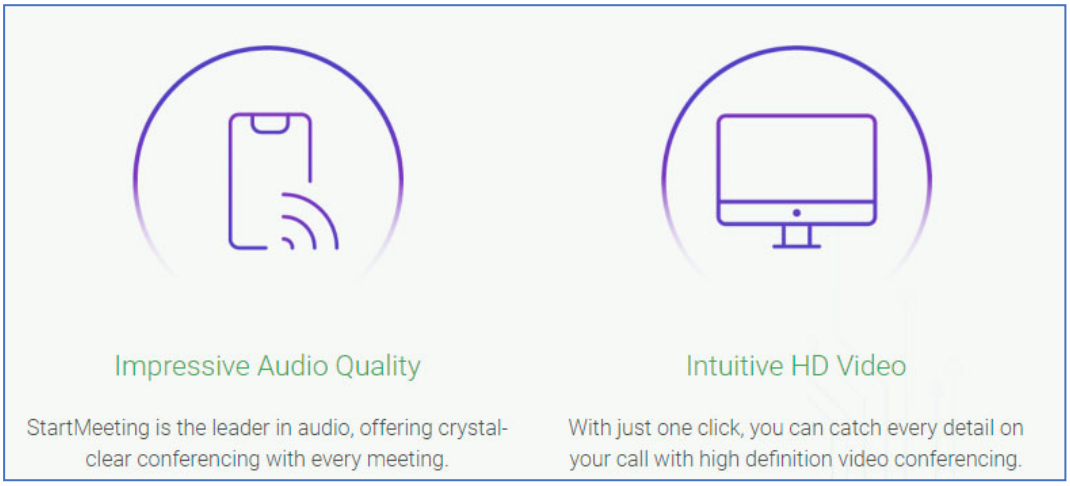


See e.g., https://www.carrierx.com/



See e.g., https://www.startmeeting.com/conference-features

See e.g., https://www.freeconferencecall.com/

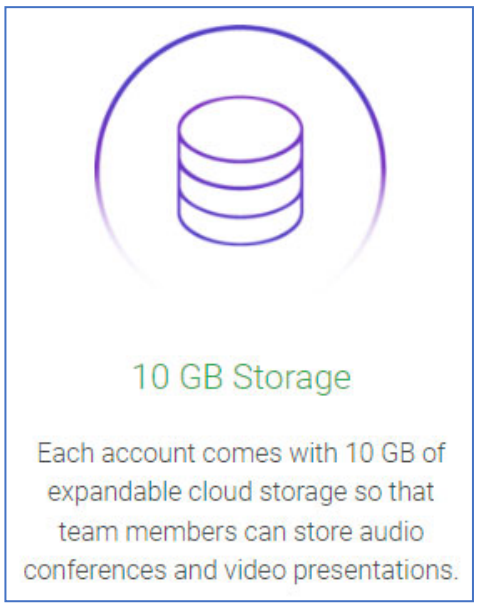


See e.g., https://www.startmeeting.com/

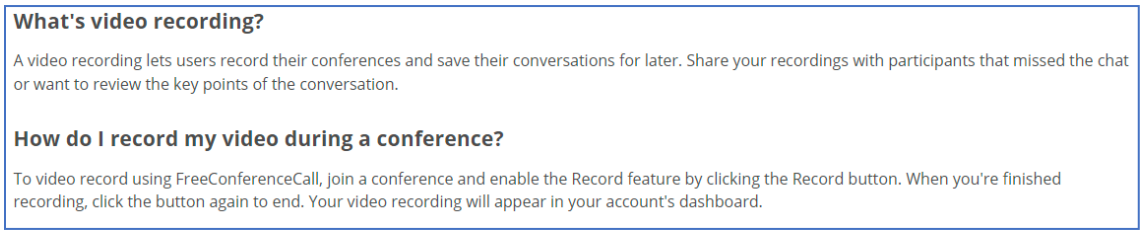
Minimal operating system requirements:

- OS:
  - Windows® 7
  - Mac® OSX 10.10
  - iOS 10.0 (sharing phone's screen requires v11.0)
  - Android 5.0 and up
- Bandwidth: 100Kb/s (HD Audio), 400Kb/s (screen sharing), 1.1Mb/s (video)
- Desktop: Chrome™ 60 and newer or Chromebook or Firefox® 78 and newer, or Edge 79 and newer, or Safari® 11.1 and newer.
- Mobile: Chrome™ 60, Firefox® Android 60 and iOS 20, Safari® iOS 11

See e.g., https://www.startmeeting.com/support



See e.g., https://www.startmeeting.com/conference-features



What's video recording?

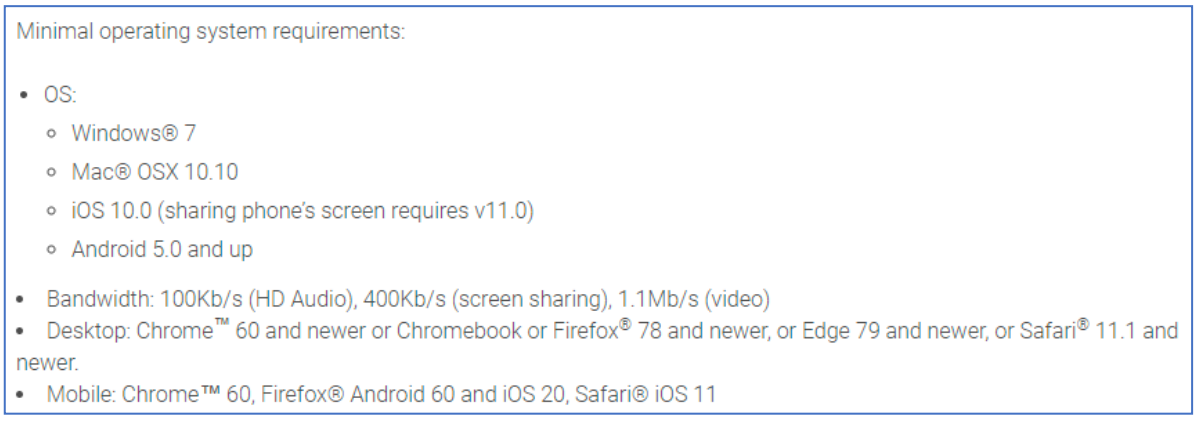
A video recording lets users record their conferences and save their conversations for later. Share your recordings with participants that missed the chat or want to review the key points of the conversation.

How do I record my video during a conference?

To video record using FreeConferenceCall, join a conference and enable the Record feature by clicking the Record button. When you're finished recording, click the button again to end. Your video recording will appear in your account's dashboard.

See e.g., https://www.freeconferencecall.com/video-recording

91. On information and belief, one or more components of the CarrierX System employs and provides an Internet-based recording method comprising transmitting, to the user front end from the host back end via a network, (*e.g.*, the Internet), a platform-independent web application, wherein the web application initiates the streaming of audio and video material from a receiving device on the user front end to the host back end as it is being captured with the receiving device. *See e.g., Id.*



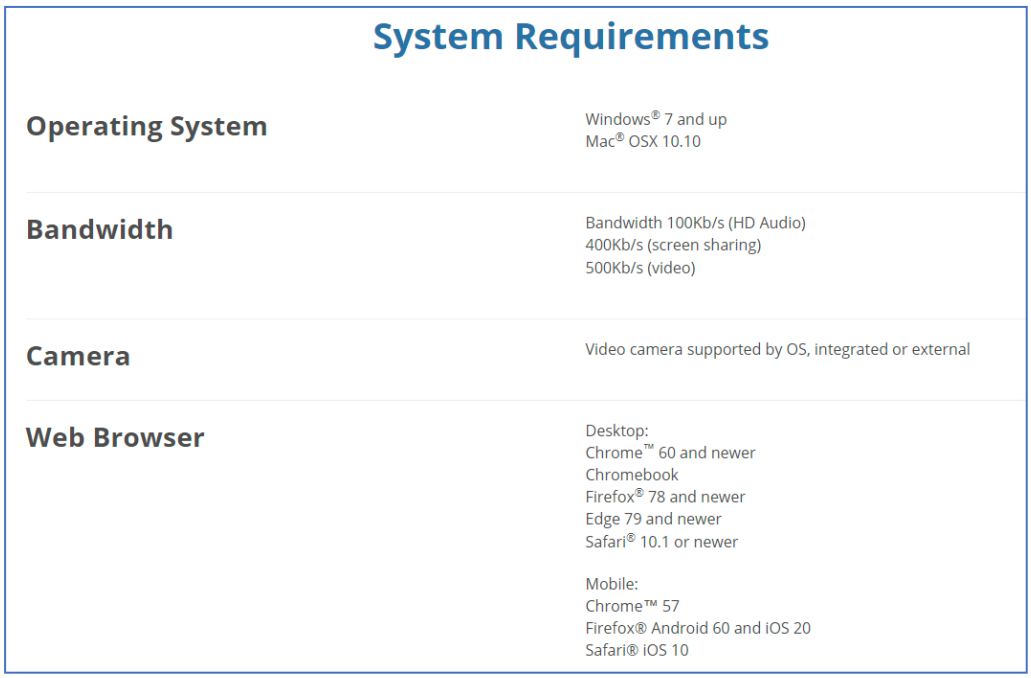
Minimal operating system requirements:

- OS:
  - Windows® 7
  - Mac® OSX 10.10
  - iOS 10.0 (sharing phone's screen requires v11.0)
  - Android 5.0 and up
- Bandwidth: 100Kb/s (HD Audio), 400Kb/s (screen sharing), 1.1Mb/s (video)
- Desktop: Chrome™ 60 and newer or Chromebook or Firefox® 78 and newer, or Edge 79 and newer, or Safari® 11.1 and newer.
- Mobile: Chrome™ 60, Firefox® Android 60 and iOS 20, Safari® iOS 11

See e.g., https://www.startmeeting.com/support

///

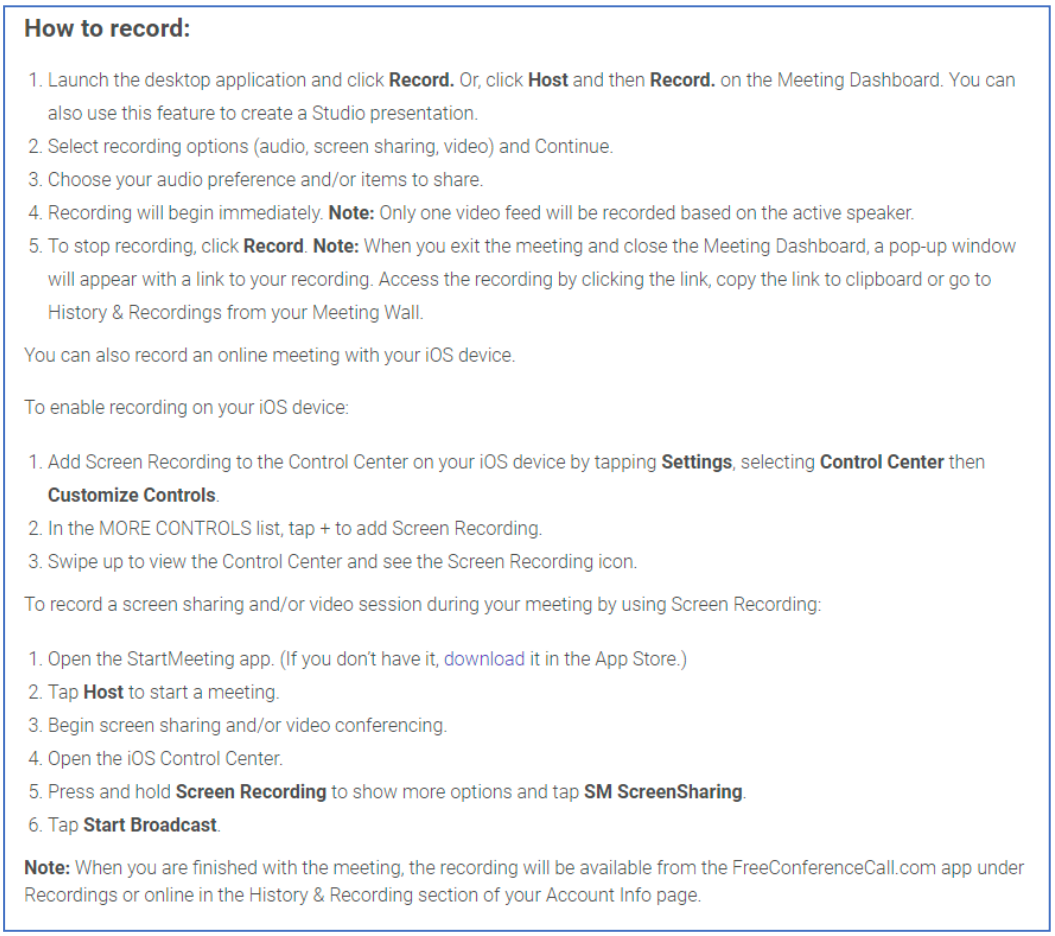
///



System Requirements

Operating System	Windows® 7 and up Mac® OSX 10.10
Bandwidth	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
Camera	Video camera supported by OS, integrated or external
Web Browser	Desktop: Chrome™ 60 and newer Chromebook Firefox® 78 and newer Edge 79 and newer Safari® 10.1 or newer Mobile: Chrome™ 57 Firefox® Android 60 and iOS 20 Safari® iOS 10

See e.g., https://www.freeconferencecall.com/video-conferencing



How to record:

1. Launch the desktop application and click **Record.** Or, click **Host** and then **Record.** on the Meeting Dashboard. You can also use this feature to create a Studio presentation.
2. Select recording options (audio, screen sharing, video) and Continue.
3. Choose your audio preference and/or items to share.
4. Recording will begin immediately. **Note:** Only one video feed will be recorded based on the active speaker.
5. To stop recording, click **Record**. **Note:** When you exit the meeting and close the Meeting Dashboard, a pop-up window will appear with a link to your recording. Access the recording by clicking the link, copy the link to clipboard or go to History & Recordings from your Meeting Wall.

You can also record an online meeting with your iOS device.

To enable recording on your iOS device:

1. Add Screen Recording to the Control Center on your iOS device by tapping **Settings**, selecting **Control Center** then **Customize Controls**.
2. In the MORE CONTROLS list, tap + to add Screen Recording.
3. Swipe up to view the Control Center and see the Screen Recording icon.

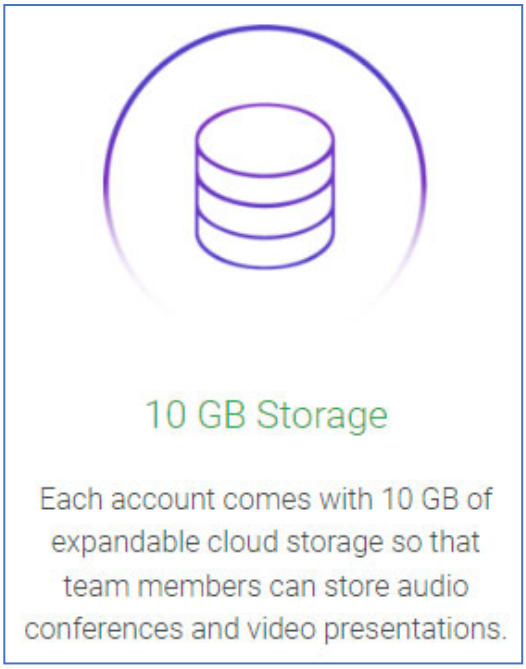
To record a screen sharing and/or video session during your meeting by using Screen Recording:

1. Open the StartMeeting app. (If you don't have it, download it in the App Store.)
2. Tap **Host** to start a meeting.
3. Begin screen sharing and/or video conferencing.
4. Open the iOS Control Center.
5. Press and hold **Screen Recording** to show more options and tap **SM ScreenSharing**.
6. Tap **Start Broadcast**.

Note: When you are finished with the meeting, the recording will be available from the FreeConferenceCall.com app under Recordings or online in the History & Recording section of your Account Info page.

See e.g., https://www.startmeeting.com/host-instructions

92. On information and belief, one or more components of the CarrierX System employs and provides an Internet-based recording method comprising recording the audio and video material on the host back end (*e.g.*, one or more servers of the CarrierX System) via the web application and storing the recorded audio and video material as a complete video file. *See e.g., Id.*



See e.g., https://www.startmeeting.com/conference-features

How long are recordings available?

As long as your account is active, recordings are stored until there is no more space available. You can choose to delete previous recordings or purchase more storage for a low monthly fee.

See e.g., https://www.startmeeting.com/support

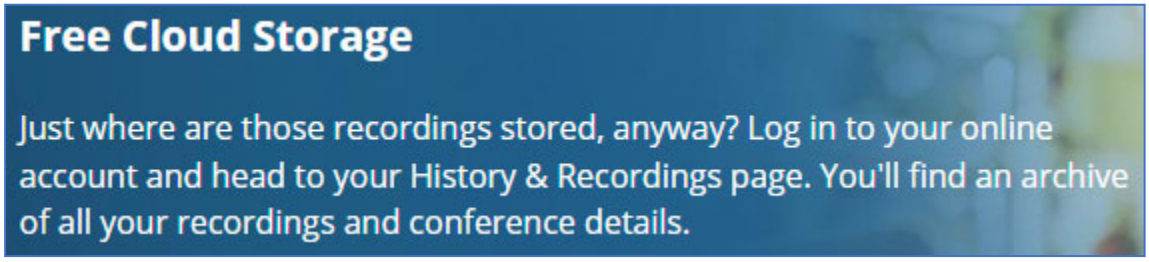
Is there a limit to the number of times I video record?

No. There is no limit to the number of times you can use the feature. Your account comes with 1GB of free cloud storage. When you run out of space, you can either download your recordings and delete them from your profile to recycle your storage or upgrade your account for additional space.

See e.g., https://www.freeconferencecall.com/video-recording

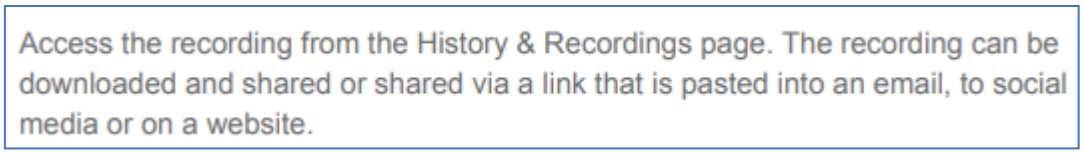
///

///



See e.g., https://www.freeconferencecall.com/video-recording

93. On information and belief, one or more components of the CarrierX System employs and provides an Internet-based recording method comprising generating code associated with the recorded and stored audio and video material to facilitate accessing the recorded and stored audio and video material from an additional location, wherein the content of the generated code depends on a type of code supported by the additional location. *See e.g., Id.*



See e.g., https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf

94. On information and belief, one or more components of the CarrierX System employs and provides an Internet-based recording method comprising enabling the generated code to be copied and pasted to the additional location, wherein activating the generated code provides access to the recorded audio and video material from the additional location. *See e.g., Id.*

95. On information and belief, CarrierX directly infringes at least claim 1 of the '728 patent and is in violation of 35 U.S.C. § 271(a) by making, using, selling, importing, and/or offering to sell the CarrierX Products and services; and making, using, selling, selling access to, importing, offering for sale, and/or offering to sell access to the CarrierX System.

96. CarrierX's direct infringement has damaged Onstream and caused it to suffer and continue to suffer irreparable harm and damages.

Count III – Infringement of United States Patent No. 10,038,930

97. Onstream repeats, realleges, and incorporates by reference, as if fully set forth here, the allegations of the preceding paragraphs above.

98. On information and belief, CarrierX (or those acting on its behalf) makes, uses, sells, imports and/or offers to sell the CarrierX Products and Services; and makes, uses, sells, sells access to, imports, offers to sell and/or offers to sell access to the CarrierX System in the United States, which infringe (literally and/or under the doctrine of equivalents) at least claim 1 of the '930 patent.

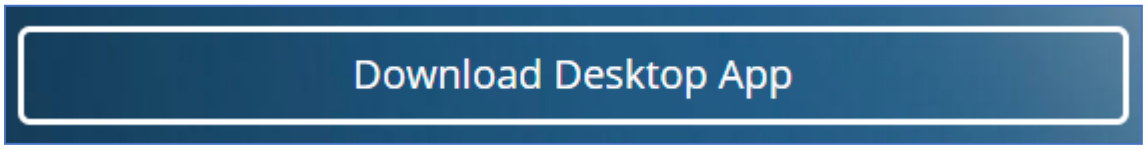
99. On information and belief, one or more components of the CarrierX System employs and provides a method comprising transmitting, via a network, a browser-independent recording application from a backend server, (*e.g.* a server in the CarrierX System) to a client device, the browser-independent recording application executing in a browser on the client device.

> **What devices are compatible with online meetings?**
>
> Online meetings work on PCs, Macs® , Chromebooks™, iOS and Android™ phones and tablets. Download apps
>
> **Note:** Chromebooks do not require a download, so users can host or join meetings using Web Viewer. View recommended browsers and system requirements.

See e.g., https://www.startmeeting.com/support

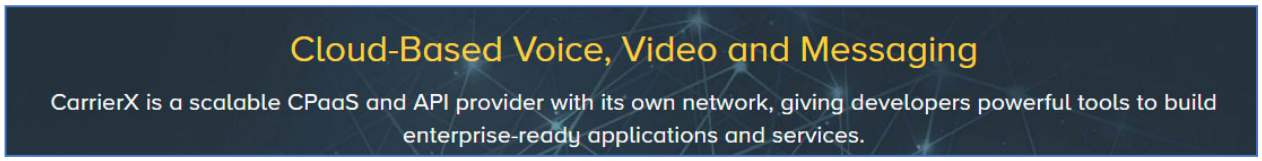
> • Screen sharing tools allow users to share a specific app, window, or their entire screen with other participants, without requiring any software downloads.

See e.g., https://www.getapp.com/it-communications-software/a/startmeeting/

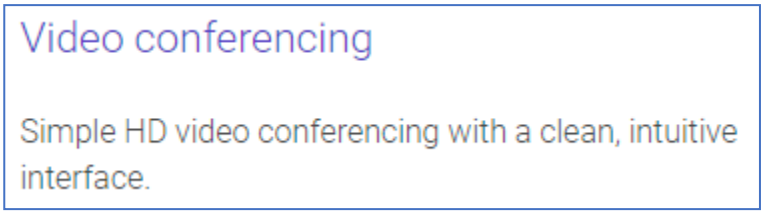


See e.g., https://www.freeconferencecall.com/

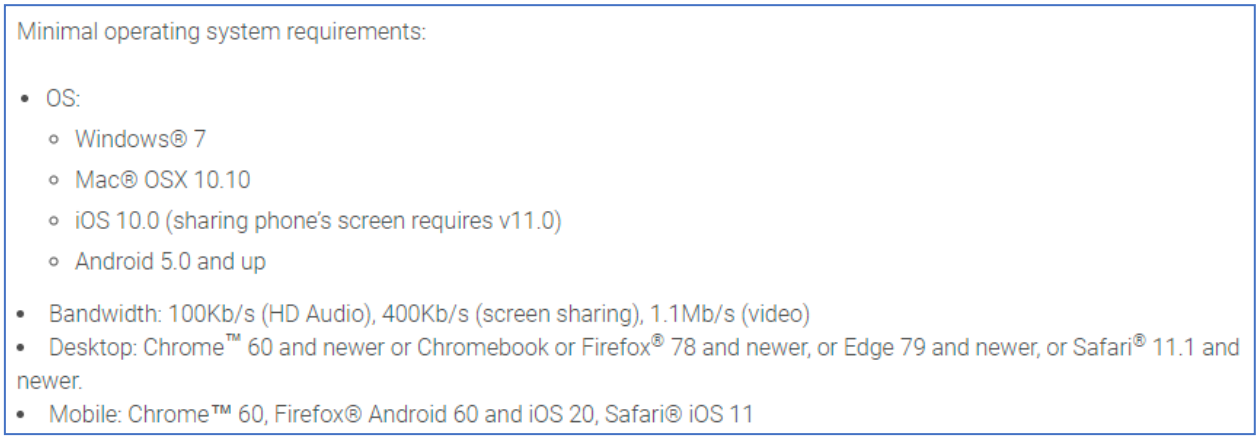
100. On information and belief, one or more components of the CarrierX System employs and provides a method comprising receiving, at the backend server, a media stream from a media input at the client device via the network, wherein the media stream is captured via the browser-independent recording application executing in the browser without using recording management software installed on the client device. *See e.g., Id.*



See e.g., https://www.carrierx.com/



See e.g., https://www.startmeeting.com/conference-features



See e.g., https://www.startmeeting.com/support

What devices are compatible with online meetings?

Online meetings work on PCs, Macs® , Chromebooks™, iOS and Android™ phones and tablets. Download apps

Note: Chromebooks do not require a download, so users can host or join meetings using Web Viewer. View recommended browsers and system requirements.

See e.g., https://www.startmeeting.com/support

Web Viewer

What is Web Viewer?

Web Viewer allows participants to join online meetings with their web browsers instead of joining via the StartMeeting desktop application. No download is necessary.

Can I host a meeting using Web Viewer?

At this time, only Chromebook supports full host functionality through Web Viewer, including VoIP audio, video and screen sharing. Using the Meeting Dashboard, Chromebook users are also able to: record, select mute modes, chat and more. For details, refer to Host Instructions.

What features are available to participants with Web Viewer?

Participants can join a meeting with VoIP audio and video conferencing and view screen sharing. Participants are able to send and receive chat messages, view participants and mute/unmute their own lines.

What if participants have the StartMeeting desktop application downloaded?

If participants have the StartMeeting desktop application installed, the system will automatically detect and launch the application.

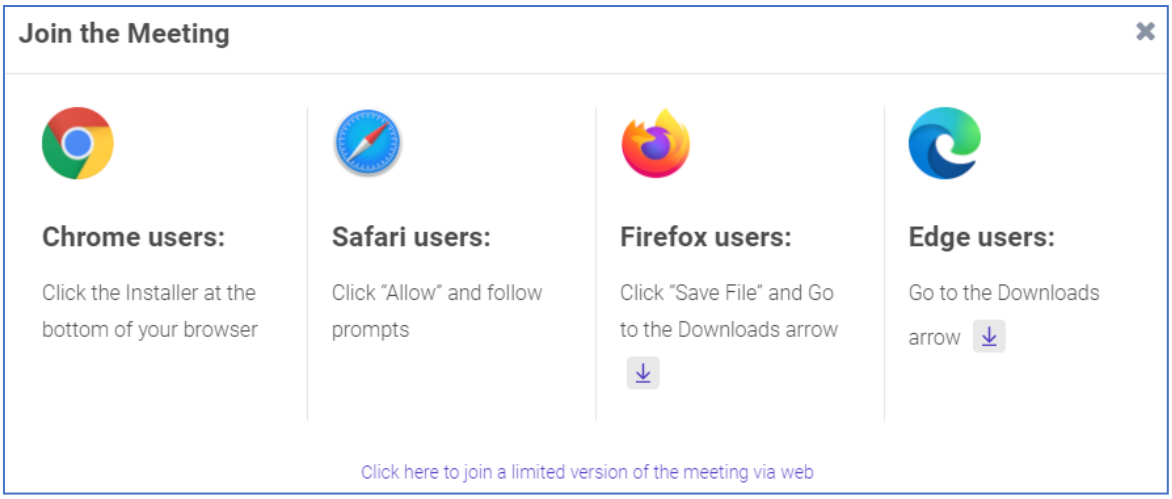
Which browsers support online meetings?

We recommend that participants join using Chrome™ 60 and newer or Chromebook or Firefox® 78 and newer. These browsers support VoIP audio, multi-feed video and viewing screen sharing. Edge 79 and newer and Safari® 11.1 and newer support viewing screen sharing only.

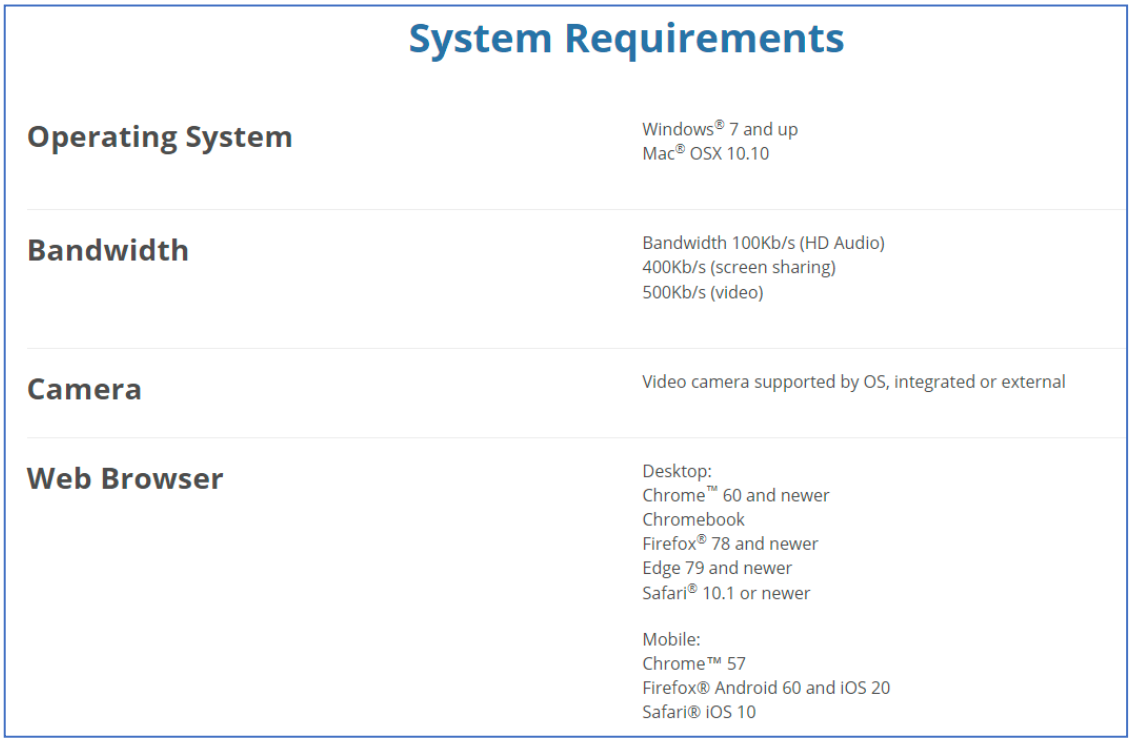
How do I join a video conference through my web browser?

When using Firefox, Chrome or Chromebook, click the camera that appears in the toolbar. A pop-up will appear requesting access to the camera and microphone. Allow access to start video conferencing.

See e.g., https://www.startmeeting.com/support



See e.g., https://www.startmeeting.com/profile/account-info-sign-up



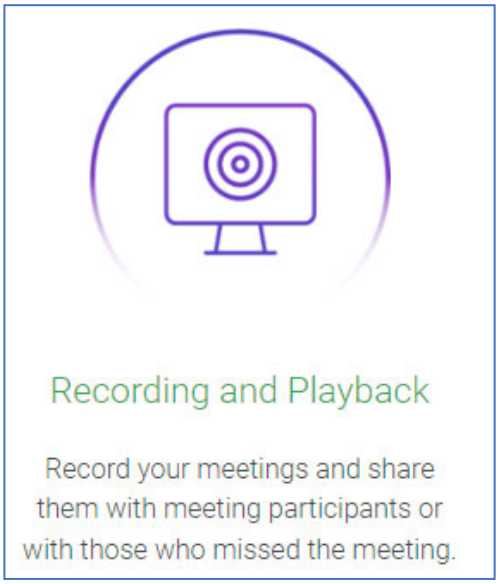
See e.g., https://www.freeconferencecall.com/video-conferencing

101. On information and belief, one or more components of the CarrierX System employs and provides a method comprising recording the media stream on the backend server using the browser-independent recording application.

With StartMeeting, your business can take advantage of:

- Unlimited audio and video conferencing
- IM and Presence
- Screen Sharing and Drawing
- Meeting Recording and Playback
- International Dial-In Numbers
- Dedicated Account Management

See e.g., https://www.startmeeting.com/enterprise



See e.g., https://www.startmeeting.com/conference-features

///

///

How to record:

1. Launch the desktop application and click **Record.** Or, click **Host** and then **Record.** on the Meeting Dashboard. You can also use this feature to create a Studio presentation.
2. Select recording options (audio, screen sharing, video) and Continue.
3. Choose your audio preference and/or items to share.
4. Recording will begin immediately. **Note:** Only one video feed will be recorded based on the active speaker.
5. To stop recording, click **Record**. **Note:** When you exit the meeting and close the Meeting Dashboard, a pop-up window will appear with a link to your recording. Access the recording by clicking the link, copy the link to clipboard or go to History & Recordings from your Meeting Wall.

You can also record an online meeting with your iOS device.

To enable recording on your iOS device:

1. Add Screen Recording to the Control Center on your iOS device by tapping **Settings**, selecting **Control Center** then **Customize Controls**.
2. In the MORE CONTROLS list, tap + to add Screen Recording.
3. Swipe up to view the Control Center and see the Screen Recording icon.

To record a screen sharing and/or video session during your meeting by using Screen Recording:

1. Open the StartMeeting app. (If you don't have it, download it in the App Store.)
2. Tap **Host** to start a meeting.
3. Begin screen sharing and/or video conferencing.
4. Open the iOS Control Center.
5. Press and hold **Screen Recording** to show more options and tap **SM ScreenSharing**.
6. Tap **Start Broadcast**.

Note: When you are finished with the meeting, the recording will be available from the FreeConferenceCall.com app under Recordings or online in the History & Recording section of your Account Info page.

See e.g., https://www.startmeeting.com/host-instructions

What's video recording?

A video recording lets users record their conferences and save their conversations for later. Share your recordings with participants that missed the chat or want to review the key points of the conversation.

How do I record my video during a conference?

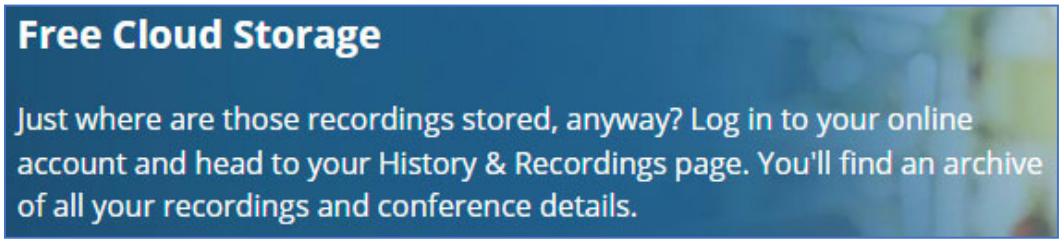
To video record using FreeConferenceCall, join a conference and enable the Record feature by clicking the Record button. When you're finished recording, click the button again to end. Your video recording will appear in your account's dashboard.

See e.g., https://www.freeconferencecall.com/video-recording

Is there a limit to the number of times I video record?

No. There is no limit to the number of times you can use the feature. Your account comes with 1GB of free cloud storage. When you run out of space, you can either download your recordings and delete them from your profile to recycle your storage or upgrade your account for additional space.

See e.g., https://www.freeconferencecall.com/video-recording



See e.g., https://www.freeconferencecall.com/video-recording

102. On information and belief, CarrierX directly infringes at least claim 1 of the '930 patent and is in violation of 35 U.S.C. § 271(a) by making, using, selling, importing, and/or offering to sell the CarrierX Products and services; and making, using, selling, selling access to, importing, offering for sale, and/or offering to selling access to the CarrierX System.

103. CarrierX's direct infringement has damaged Onstream and caused it to suffer and continue to suffer irreparable harm and damages.

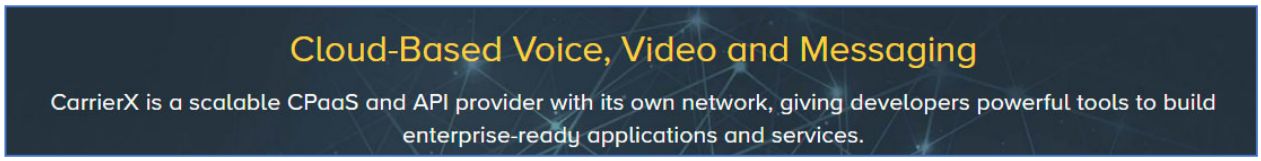
Count IV – Infringement of United States Patent No. 10,200,648

104. Onstream repeats, realleges, and incorporates by reference, as if fully set forth here, the allegations of the preceding paragraphs above.

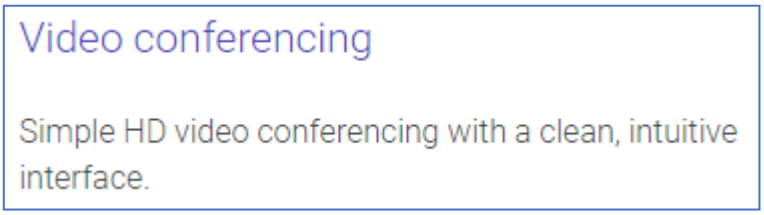
105. On information and belief, CarrierX (or those acting on its behalf) makes, uses, sells, imports and/or offers to sell the CarrierX Products and Services; and makes, uses, sells, sells access to, imports, offers to sell and/or offers to sell access to the CarrierX System in the United States that infringe (literally and/or under the doctrine of equivalents) at least claim 1 of the '648 patent.

106. On information and belief, one or more components of the CarrierX System employs and provides an Internet-based recording method that performs all audio and video recording functions over an Internet browser connection established between a user front end and a host back end comprising recording audio and video material over the Internet browser connection, wherein audio and video material originates on the user front

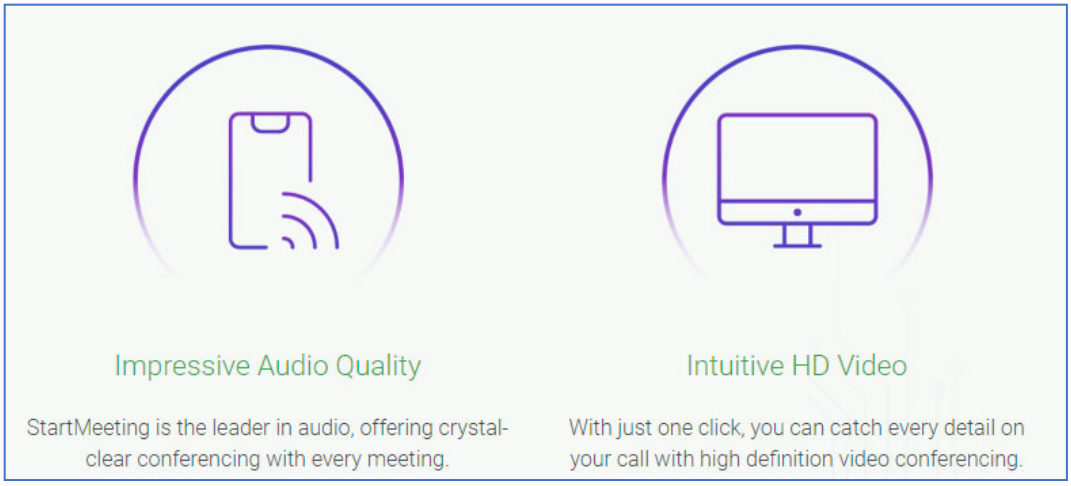
end and is recorded on the host back end without requiring recording functionality on the user front end.



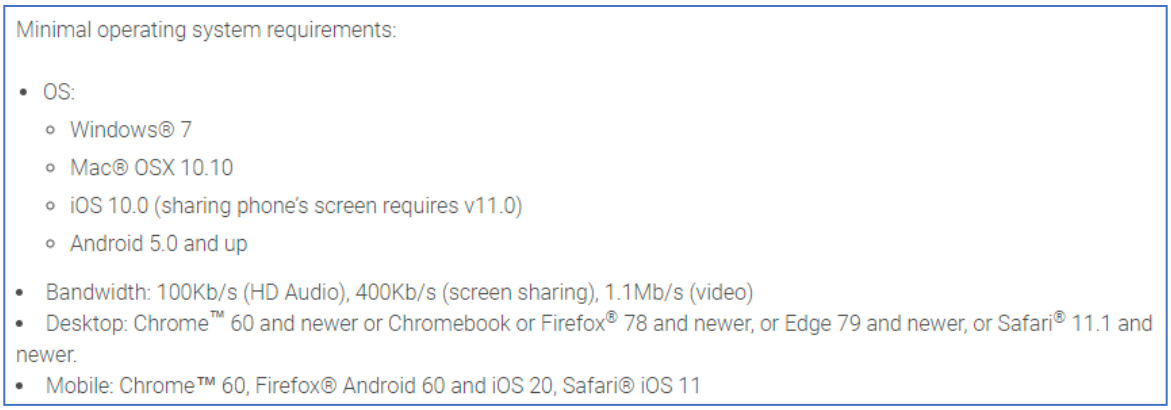
See e.g., https://www.carrierx.com/



See e.g., https://www.startmeeting.com/conference-features



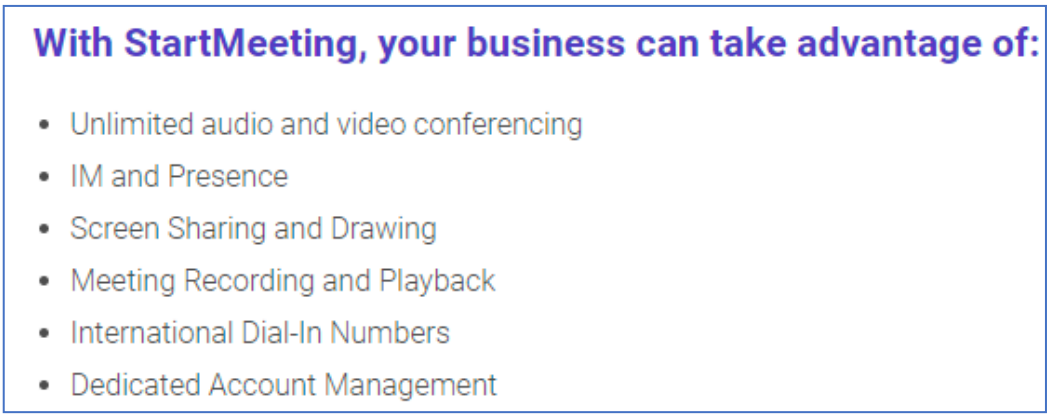
See e.g., https://www.startmeeting.com/



See e.g., https://www.startmeeting.com/support

See e.g., https://www.freeconferencecall.com/

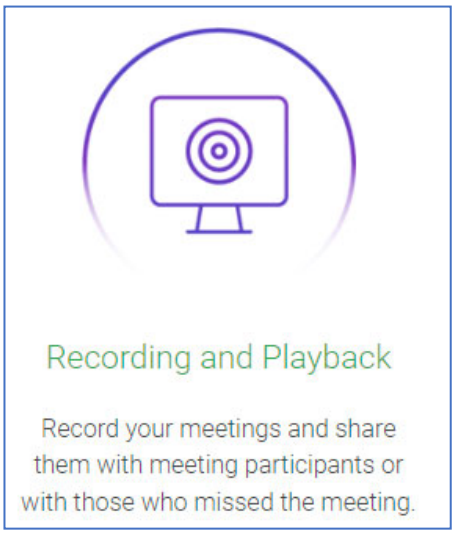
107. On information and belief, one or more components of the CarrierX System employs and provides an Internet-based recording method that performs all audio and video recording functions over an Internet browser connection established between a user front end and a host back end comprising storing the recorded audio and video material on the host back end. *See e.g., Id.*



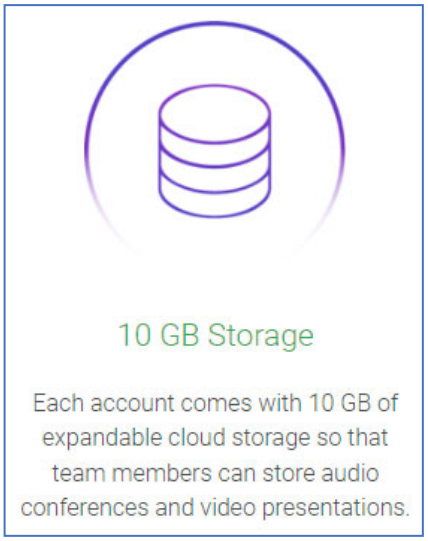
See e.g., https://www.startmeeting.com/enterprise

///

///



See e.g., https://www.startmeeting.com/conference-features



See e.g., https://www.startmeeting.com/conference-features

///

///

How to record:

1. Launch the desktop application and click **Record.** Or, click **Host** and then **Record.** on the Meeting Dashboard. You can also use this feature to create a Studio presentation.
2. Select recording options (audio, screen sharing, video) and Continue.
3. Choose your audio preference and/or items to share.
4. Recording will begin immediately. **Note:** Only one video feed will be recorded based on the active speaker.
5. To stop recording, click **Record**. **Note:** When you exit the meeting and close the Meeting Dashboard, a pop-up window will appear with a link to your recording. Access the recording by clicking the link, copy the link to clipboard or go to History & Recordings from your Meeting Wall.

You can also record an online meeting with your iOS device.

To enable recording on your iOS device:

1. Add Screen Recording to the Control Center on your iOS device by tapping **Settings**, selecting **Control Center** then **Customize Controls**.
2. In the MORE CONTROLS list, tap + to add Screen Recording.
3. Swipe up to view the Control Center and see the Screen Recording icon.

To record a screen sharing and/or video session during your meeting by using Screen Recording:

1. Open the StartMeeting app. (If you don't have it, download it in the App Store.)
2. Tap **Host** to start a meeting.
3. Begin screen sharing and/or video conferencing.
4. Open the iOS Control Center.
5. Press and hold **Screen Recording** to show more options and tap **SM ScreenSharing**.
6. Tap **Start Broadcast**.

Note: When you are finished with the meeting, the recording will be available from the FreeConferenceCall.com app under Recordings or online in the History & Recording section of your Account Info page.

See e.g., https://www.startmeeting.com/host-instructions

What's video recording?

A video recording lets users record their conferences and save their conversations for later. Share your recordings with participants that missed the chat or want to review the key points of the conversation.

How do I record my video during a conference?

To video record using FreeConferenceCall, join a conference and enable the Record feature by clicking the Record button. When you're finished recording, click the button again to end. Your video recording will appear in your account's dashboard.

See e.g., https://www.freeconferencecall.com/video-recording

108. On information and belief, one or more components of the CarrierX System employs and provides an Internet-based recording method that performs all audio and video recording functions over an Internet browser connection established between a user front end and a host back end comprising generating code associated with the recorded and stored audio and video material to facilitate accessing the recorded and stored audio and video material. *See e.g., Id.*

> **How long are recordings available?**
>
> As long as your account is active, recordings are stored until there is no more space available. You can choose to delete previous recordings or purchase more storage for a low monthly fee.

See e.g., https://www.startmeeting.com/support

> Access the recording from the History & Recordings page. The recording can be downloaded and shared or shared via a link that is pasted into an email, to social media or on a website.

See e.g., https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf

109. On information and belief, one or more components of the CarrierX System employs and provides an Internet-based recording method that performs all audio and video recording functions over an Internet browser connection established between a user front end and a host back end comprising enabling the generated code to be copied and pasted to an additional location, wherein activating the generated code provides access to the recorded audio and video material from the additional location. *See e.g., Id.*

110. On information and belief, CarrierX directly infringes at least claim 1 of the '648 patent and is in violation of 35 U.S.C. § 271(a) by making, using, selling, importing, and/or offering to sell the CarrierX Products and services; and making, using, selling, selling access to, importing, offering for sale, and/or offering to sell access to the CarrierX System.

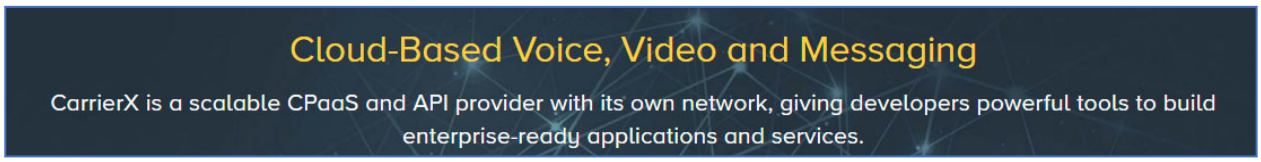
111. CarrierX's direct infringement has damaged Onstream and caused it to suffer and continue to suffer irreparable harm and damages.

Count V – Infringement of United States Patent No. 10,674,109

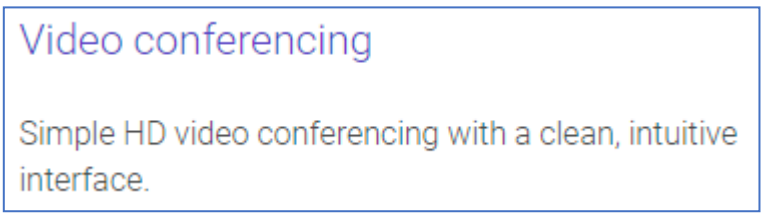
112. Onstream repeats, realleges, and incorporates by reference, as if fully set forth here, the allegations of the preceding paragraphs above.

113. On information and belief, CarrierX (or those acting on its behalf) makes, uses, sells, imports and/or offers to sell the CarrierX Products and Services; and makes, uses, sells, sells access to, imports, offers to sell and/or offers to sell access to the CarrierX System in the United States that infringe (literally and/or under the doctrine of equivalents) at least claims 1 and 2 of the '109 patent.

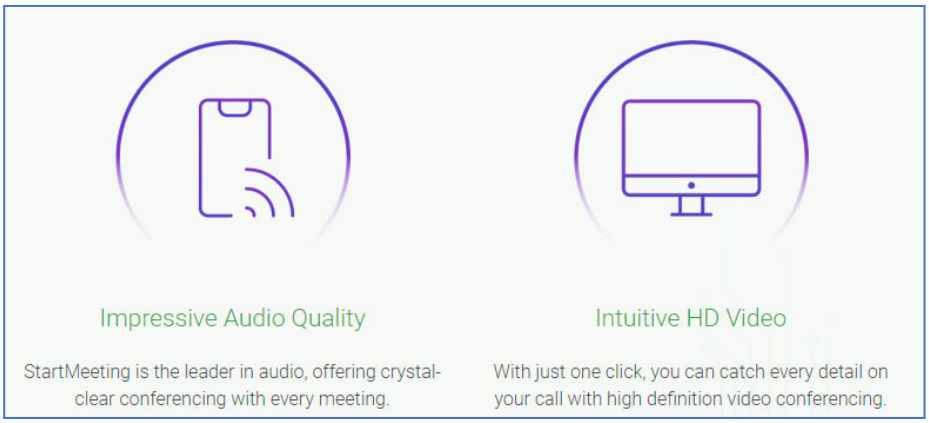
114. On information and belief, one or more components of the CarrierX System employs and provides a method comprising transmitting, via a network, (*e.g.*, the Internet) a browser-independent recording application from a backend server to a client device, the application executing in a browser on the client device.



See e.g., https://www.carrierx.com/



See e.g., https://www.startmeeting.com/conference-features



See e.g., https://www.startmeeting.com/

Minimal operating system requirements:

- OS:
  - Windows® 7
  - Mac® OSX 10.10
  - iOS 10.0 (sharing phone's screen requires v11.0)
  - Android 5.0 and up
- Bandwidth: 100Kb/s (HD Audio), 400Kb/s (screen sharing), 1.1Mb/s (video)
- Desktop: Chrome™ 60 and newer or Chromebook or Firefox® 78 and newer, or Edge 79 and newer, or Safari® 11.1 and newer.
- Mobile: Chrome™ 60, Firefox® Android 60 and iOS 20, Safari® iOS 11

See e.g., https://www.startmeeting.com/support

What devices are compatible with online meetings?

Online meetings work on PCs, Macs® , Chromebooks™, iOS and Android™ phones and tablets. Download apps

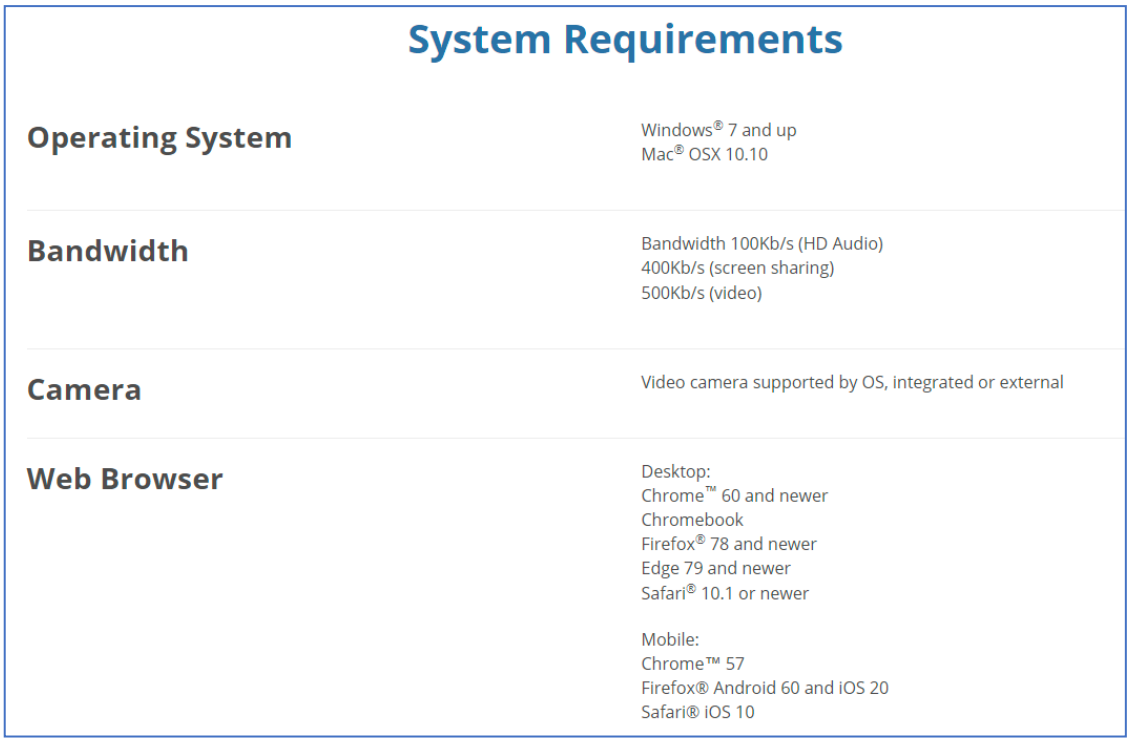
Note: Chromebooks do not require a download, so users can host or join meetings using Web Viewer. View recommended browsers and system requirements.

See e.g., https://www.startmeeting.com/support

See e.g., https://www.freeconferencecall.com/

///

///

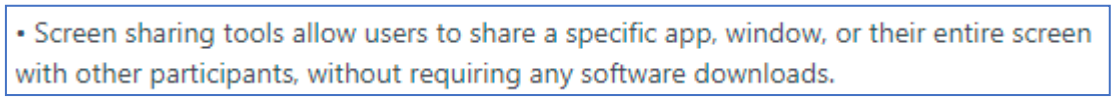


System Requirements

Operating System	Windows® 7 and up Mac® OSX 10.10
Bandwidth	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
Camera	Video camera supported by OS, integrated or external
Web Browser	Desktop: Chrome™ 60 and newer Chromebook Firefox® 78 and newer Edge 79 and newer Safari® 10.1 or newer Mobile: Chrome™ 57 Firefox® Android 60 and iOS 20 Safari® iOS 10

See e.g., https://www.freeconferencecall.com/video-conferencing

115. On information and belief, one or more components of the CarrierX System employs and provides a method comprising receiving, at the backend server, a media stream at the client device via the network, wherein the media stream is captured via the browser-independent recording application executing in the browser without using recording management software installed on the client device. *See e.g., Id.*

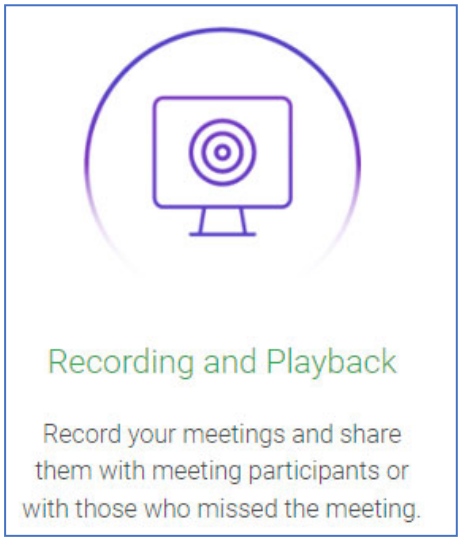


• Screen sharing tools allow users to share a specific app, window, or their entire screen with other participants, without requiring any software downloads.

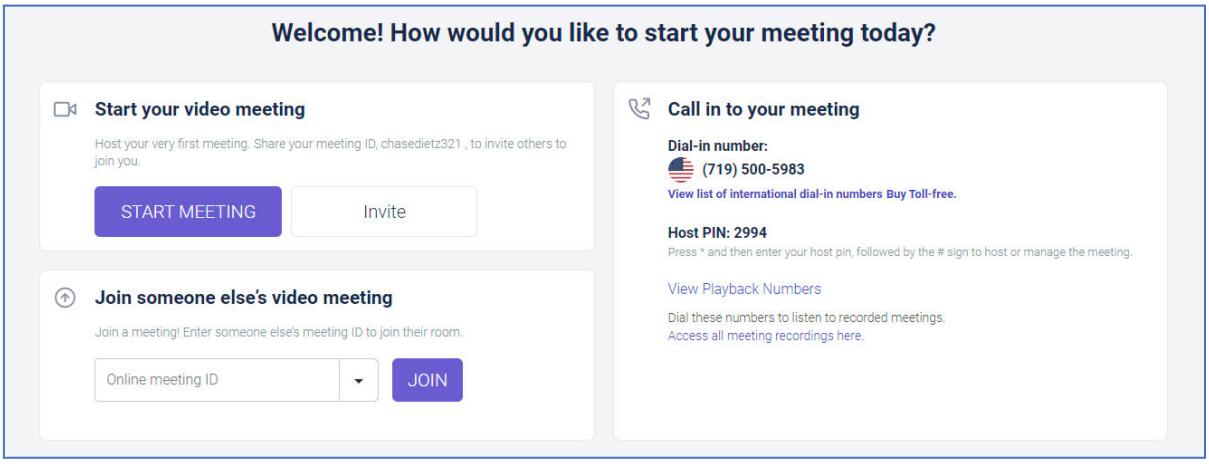
See e.g., https://www.getapp.com/it-communications-software/a/startmeeting/

///

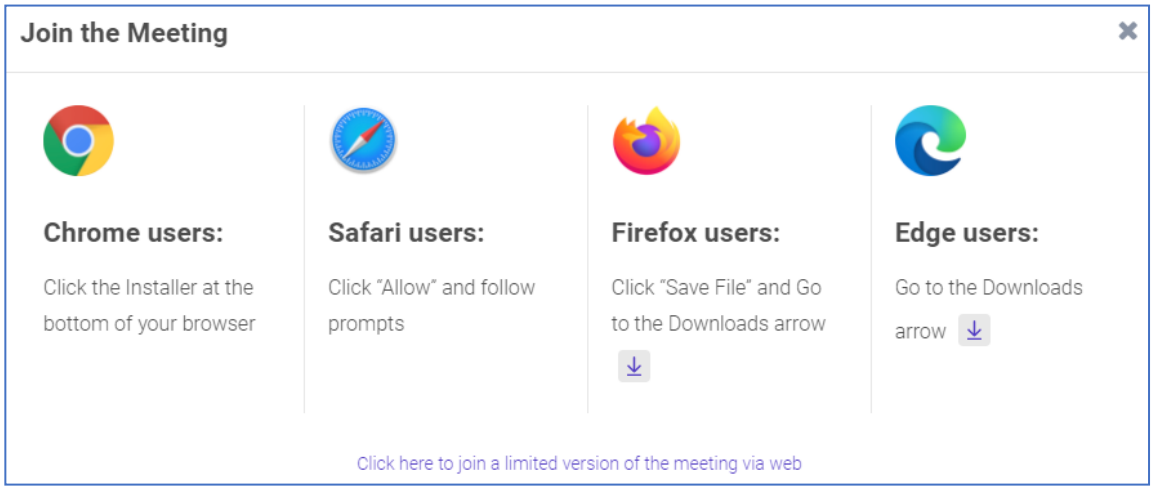
///



See e.g., https://www.startmeeting.com/conference-features

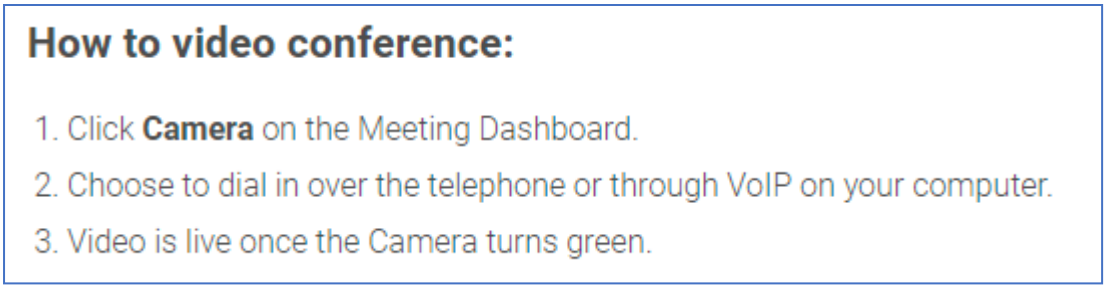


See e.g., https://www.startmeeting.com/profile/account-info-sign-up

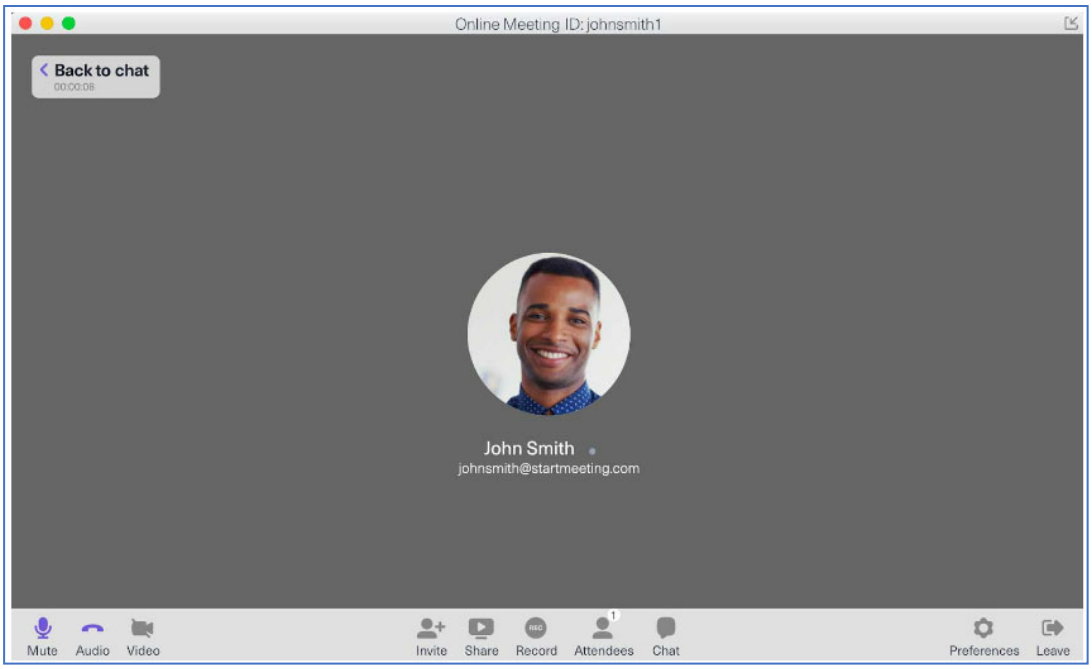


See e.g., https://www.startmeeting.com/profile/account-info-sign-up

116. On information and belief, the CarrierX System is a distributed audio and video recording system for recording audio and video material over an Internet network connection established between a front end audio and video capturing device and a host back end server system. *See e.g., Id.*



See e.g., https://www.startmeeting.com/host-instructions



See e.g., https://www.startmeeting.com/user-guide

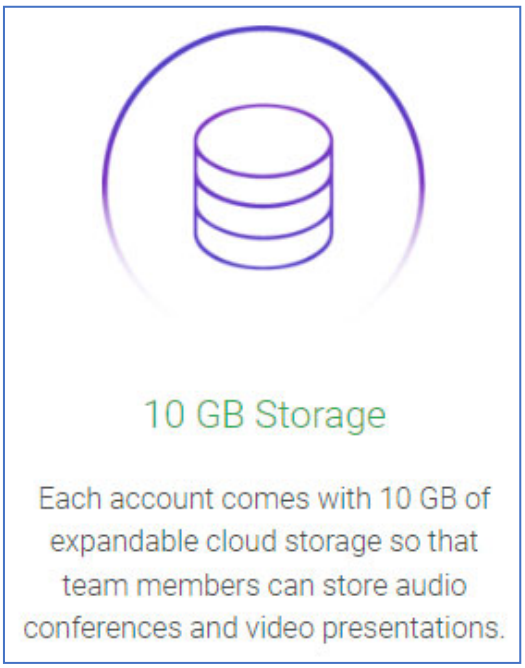
///

///

With StartMeeting, your business can take advantage of:

- Unlimited audio and video conferencing
- IM and Presence
- Screen Sharing and Drawing
- Meeting Recording and Playback
- International Dial-In Numbers
- Dedicated Account Management

See e.g., https://www.startmeeting.com/enterprise



See e.g., https://www.startmeeting.com/conference-features

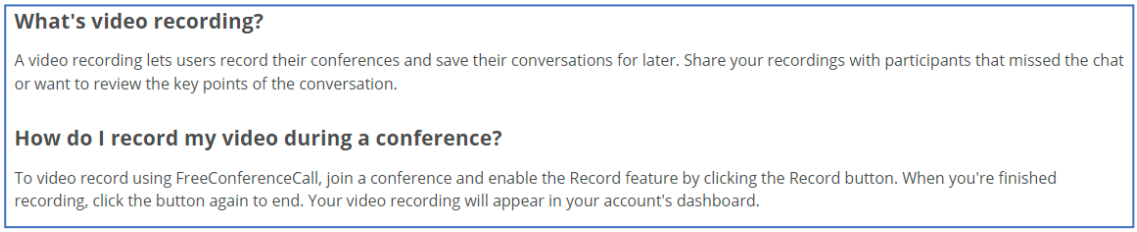
How long are recordings available?

As long as your account is active, recordings are stored until there is no more space available. You can choose to delete previous recordings or purchase more storage for a low monthly fee.

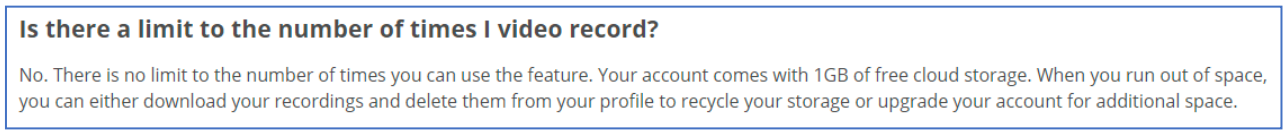
See e.g., https://www.startmeeting.com/support

///

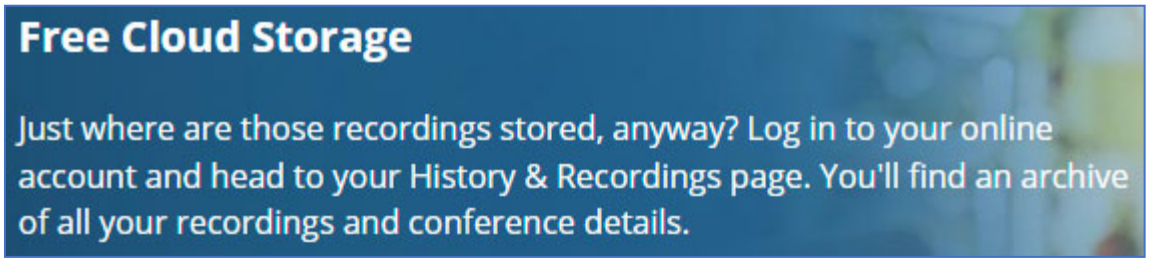
///



See e.g., https://www.freeconferencecall.com/video-recording

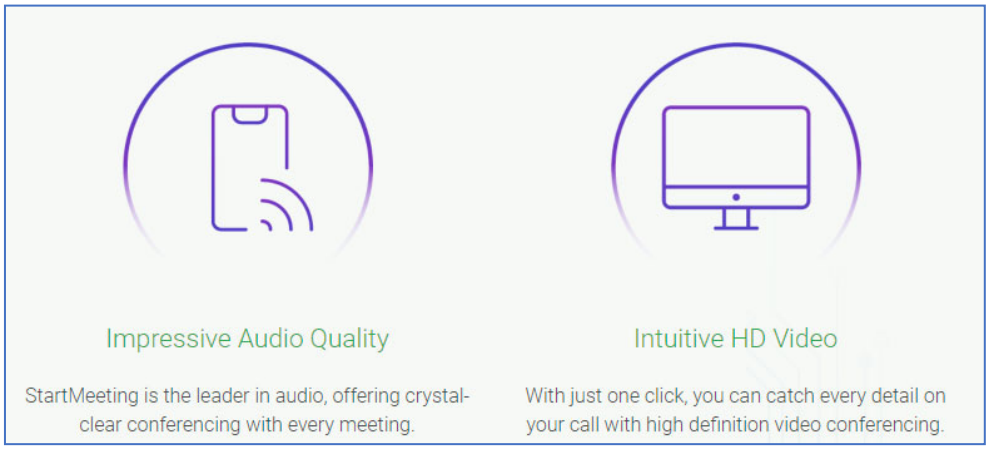


See e.g., https://www.freeconferencecall.com/video-recording

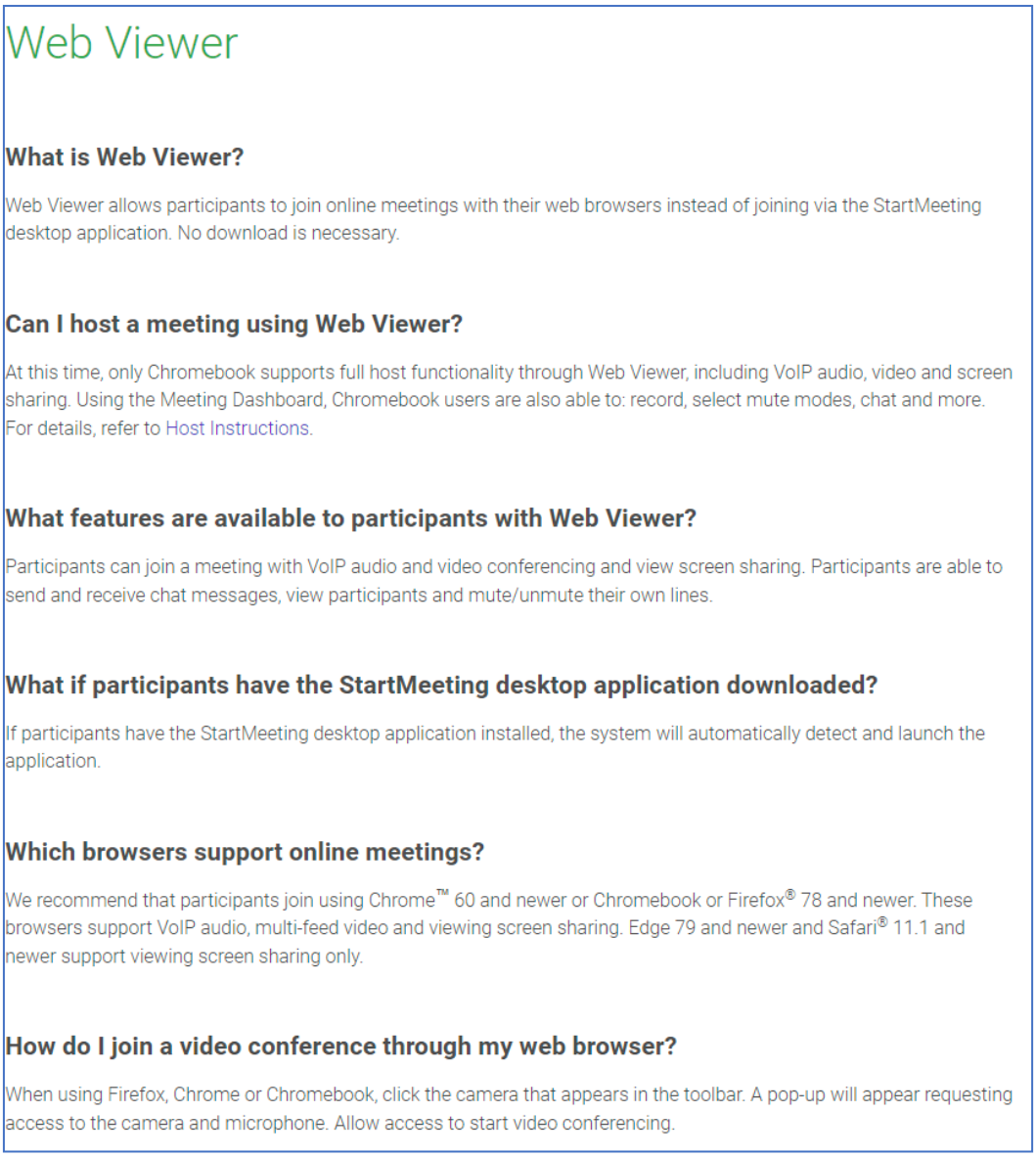


See e.g., https://www.freeconferencecall.com/video-recording

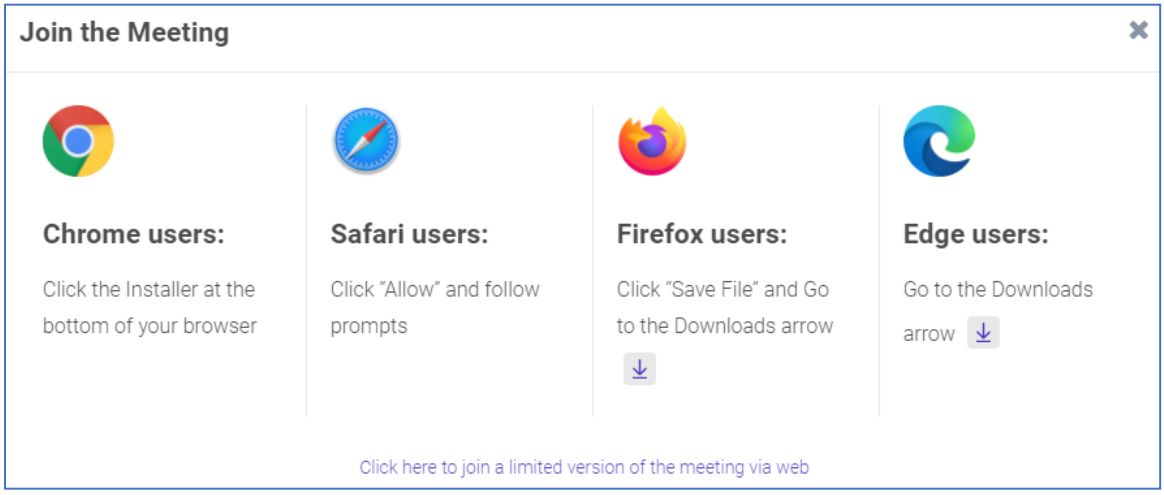
117. On information and belief, the CarrierX System is a distributed audio and video recording system for recording audio and video material over an Internet network connection established between a front end audio and video capturing device and a host back end server system, comprising a front end audio and video capturing device configured to stream audio and video material over an Internet network connection to the host back end server system, as the audio and video material is being captured by the front end audio and video capturing device, wherein the audio and video material is captured on the front end audio and video capturing device without using recording software installed on the front end audio and video capturing device, and wherein the audio and video material is not stored as a complete file on the front end audio and video capturing device prior to being streamed to the host back end server system. *See e.g., Id.*



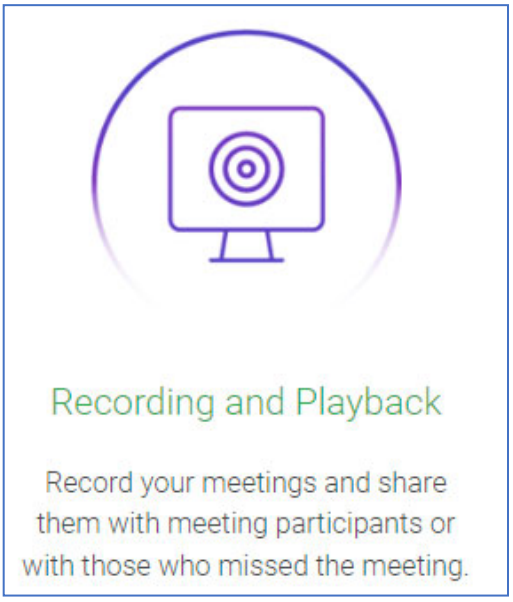
See e.g., https://www.startmeeting.com/



See e.g., https://www.startmeeting.com/support



See e.g., https://www.startmeeting.com/profile/account-info-sign-up



See e.g., https://www.startmeeting.com/conference-features

///

///

How to record:

1. Launch the desktop application and click **Record.** Or, click **Host** and then **Record.** on the Meeting Dashboard. You can also use this feature to create a Studio presentation.
2. Select recording options (audio, screen sharing, video) and Continue.
3. Choose your audio preference and/or items to share.
4. Recording will begin immediately. **Note:** Only one video feed will be recorded based on the active speaker.
5. To stop recording, click **Record**. **Note:** When you exit the meeting and close the Meeting Dashboard, a pop-up window will appear with a link to your recording. Access the recording by clicking the link, copy the link to clipboard or go to History & Recordings from your Meeting Wall.

You can also record an online meeting with your iOS device.

To enable recording on your iOS device:

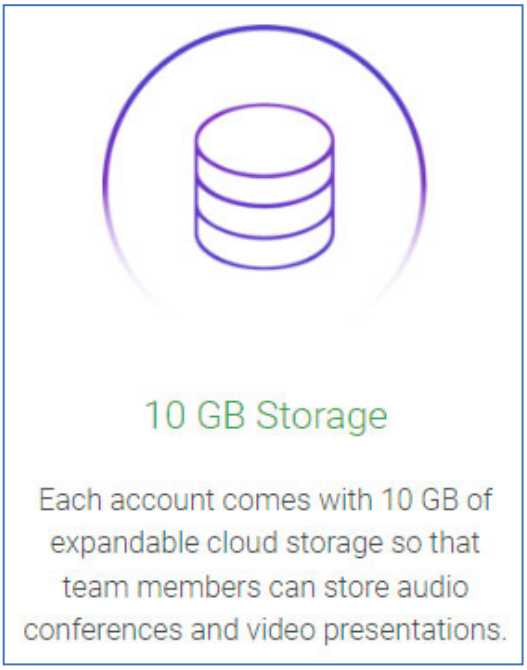
1. Add Screen Recording to the Control Center on your iOS device by tapping **Settings**, selecting **Control Center** then **Customize Controls**.
2. In the MORE CONTROLS list, tap + to add Screen Recording.
3. Swipe up to view the Control Center and see the Screen Recording icon.

To record a screen sharing and/or video session during your meeting by using Screen Recording:

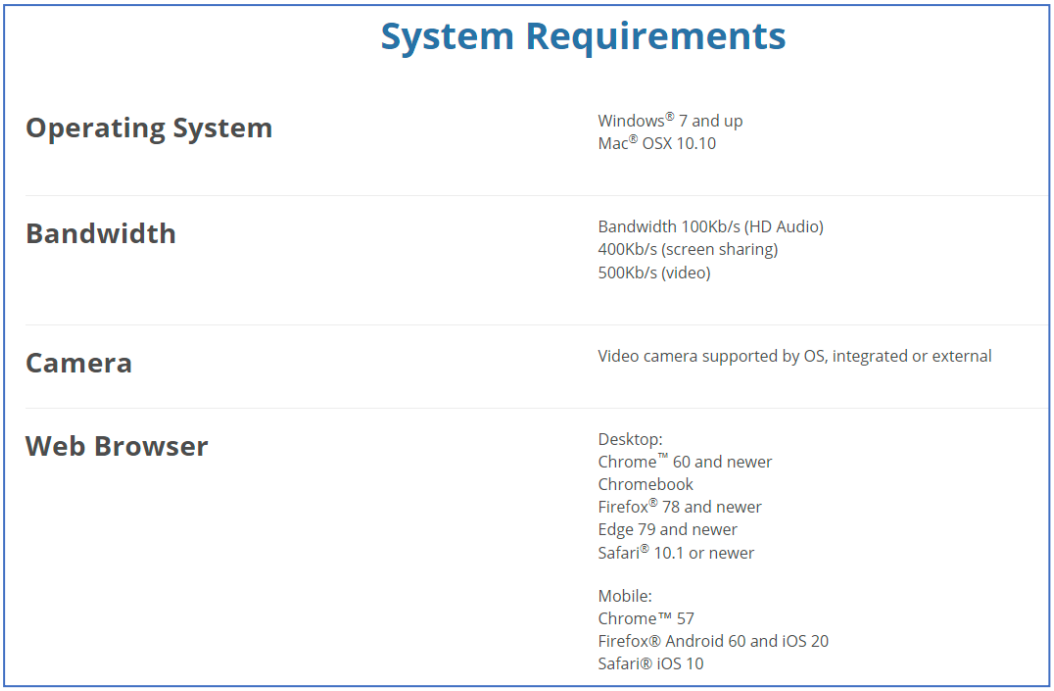
1. Open the StartMeeting app. (If you don't have it, download it in the App Store.)
2. Tap **Host** to start a meeting.
3. Begin screen sharing and/or video conferencing.
4. Open the iOS Control Center.
5. Press and hold **Screen Recording** to show more options and tap **SM ScreenSharing**.
6. Tap **Start Broadcast**.

Note: When you are finished with the meeting, the recording will be available from the FreeConferenceCall.com app under Recordings or online in the History & Recording section of your Account Info page.

See e.g., https://www.startmeeting.com/host-instructions



See e.g., https://www.startmeeting.com/conference-features

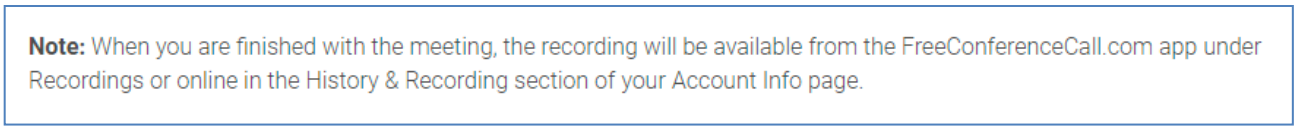


System Requirements

Operating System	Windows® 7 and up Mac® OSX 10.10
Bandwidth	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
Camera	Video camera supported by OS, integrated or external
Web Browser	Desktop: Chrome™ 60 and newer Chromebook Firefox® 78 and newer Edge 79 and newer Safari® 10.1 or newer Mobile: Chrome™ 57 Firefox® Android 60 and iOS 20 Safari® iOS 10

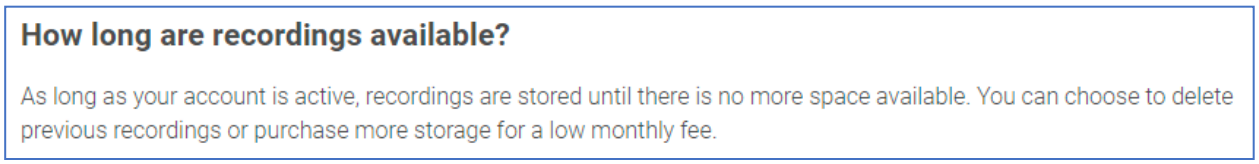
See e.g., https://www.freeconferencecall.com/video-conferencing

118. On information and belief, the CarrierX System is a distributed audio and video recording system for recording audio and video material over an Internet network connection established between a front end audio and video capturing device and a host back end server system, comprising a host back end server system comprised of one or more host back end servers, wherein at least one host back end server records audio and video material streamed from the front end audio and video capturing device to said host back end server system over the Internet network connection. *See e.g., Id.*



Note: When you are finished with the meeting, the recording will be available from the FreeConferenceCall.com app under Recordings or online in the History & Recording section of your Account Info page.

See e.g., https://www.startmeeting.com/host-instructions



How long are recordings available?

As long as your account is active, recordings are stored until there is no more space available. You can choose to delete previous recordings or purchase more storage for a low monthly fee.

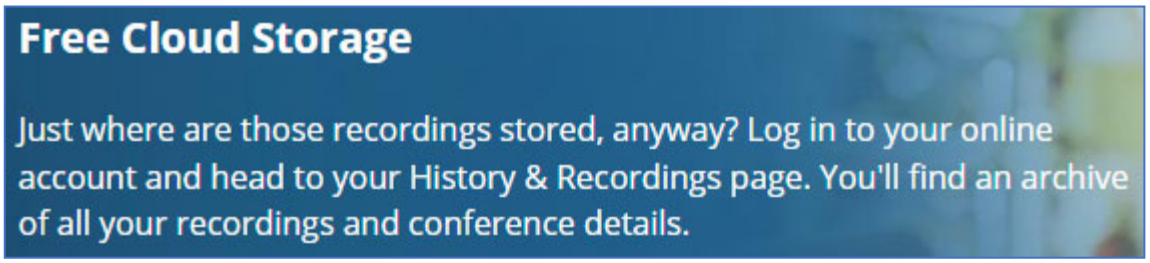
See e.g., https://www.startmeeting.com/support

> Access the recording from the History & Recordings page. The recording can be downloaded and shared or shared via a link that is pasted into an email, to social media or on a website.

See e.g., https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf

> **Is there a limit to the number of times I video record?**
>
> No. There is no limit to the number of times you can use the feature. Your account comes with 1GB of free cloud storage. When you run out of space, you can either download your recordings and delete them from your profile to recycle your storage or upgrade your account for additional space.

See e.g., https://www.freeconferencecall.com/video-recording



See e.g., https://www.freeconferencecall.com/video-recording

119. On information and belief, CarrierX directly infringes at least claims 1 and 2 of the '109 patent and is in violation of 35 U.S.C. § 271(a) by making, using, selling, importing, and/or offering to sell the CarrierX Products and services; and making, using, selling, selling access to, importing, offering for sale, and/or offering to sell access to the CarrierX System.

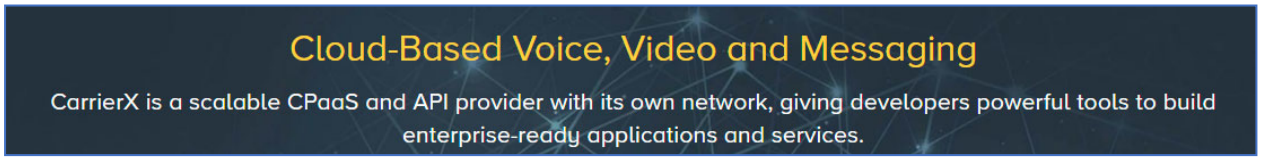
120. CarrierX's direct infringement has damaged Onstream and caused it to suffer and continue to suffer irreparable harm and damages as a result of CarrierX's infringement.

Count VI – Infringement of United States Patent No. 10,694,142

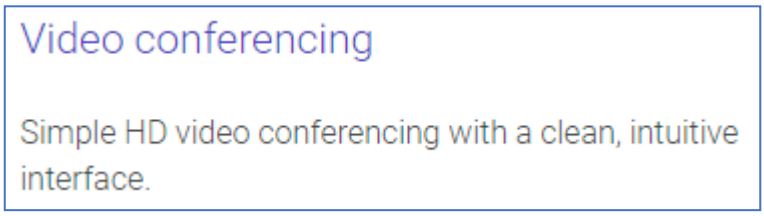
121. Onstream repeats, realleges, and incorporates by reference, as if fully set forth here, the allegations of the preceding paragraphs above.

122. On information and belief, CarrierX (or those acting on its behalf) makes, uses, sells, imports and/or offers to sell the CarrierX Products and Services; and makes, uses, sells, sells access to, imports, offers to sell and/or offers to sell access to the CarrierX System in the United States that infringe (literally and/or under the doctrine of equivalents) at least claim 1 of the '142 patent.

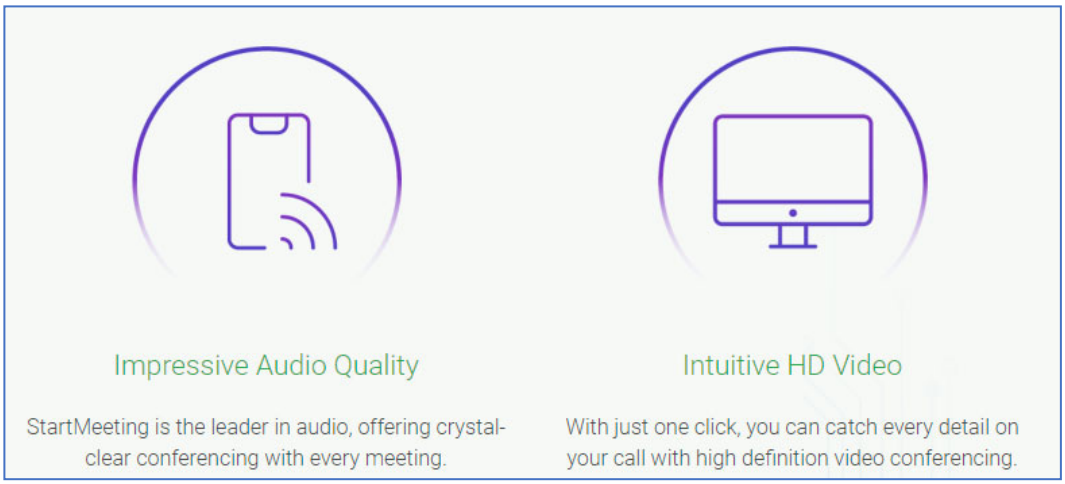
123. On information and belief, one or more components of the CarrierX System employs and provides a method for recording audio and video material over an Internet connection established between a user front end and a host back end.



See e.g., https://www.carrierx.com/



See e.g., https://www.startmeeting.com/conference-features



See e.g., https://www.startmeeting.com/

Minimal operating system requirements:

- OS:
  - Windows® 7
  - Mac® OSX 10.10
  - iOS 10.0 (sharing phone's screen requires v11.0)
  - Android 5.0 and up
- Bandwidth: 100Kb/s (HD Audio), 400Kb/s (screen sharing), 1.1Mb/s (video)
- Desktop: Chrome™ 60 and newer or Chromebook or Firefox® 78 and newer, or Edge 79 and newer, or Safari® 11.1 and newer.
- Mobile: Chrome™ 60, Firefox® Android 60 and iOS 20, Safari® iOS 11

See e.g., https://www.startmeeting.com/support

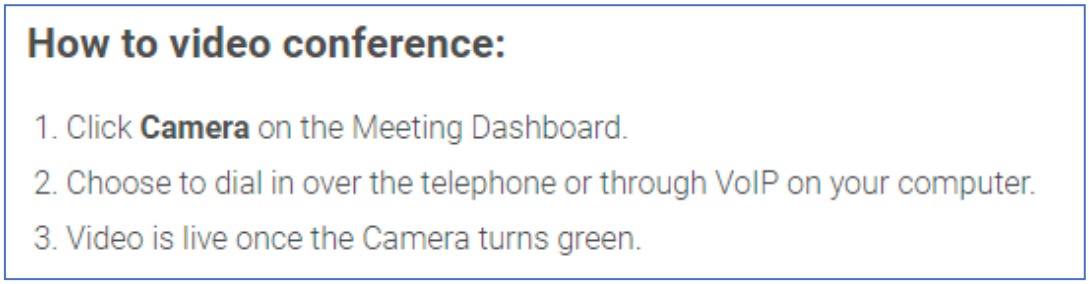
See e.g., https://www.freeconferencecall.com/

System Requirements

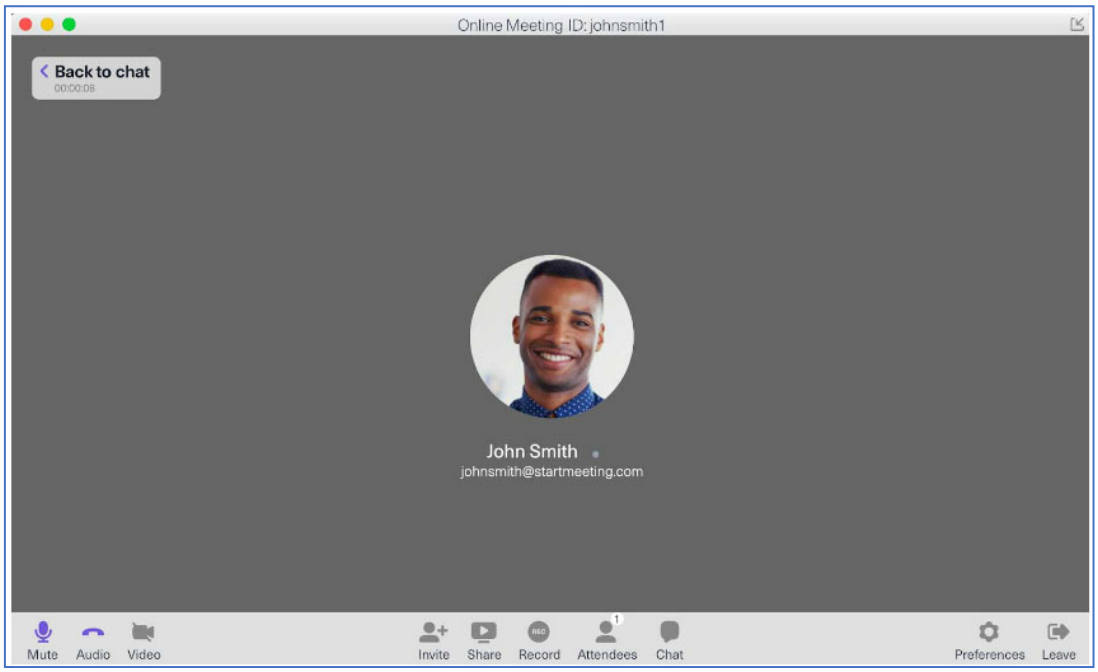
Operating System	Windows® 7 and up Mac® OSX 10.10
Bandwidth	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
Camera	Video camera supported by OS, integrated or external
Web Browser	Desktop: Chrome™ 60 and newer Chromebook Firefox® 78 and newer Edge 79 and newer Safari® 10.1 or newer Mobile: Chrome™ 57 Firefox® Android 60 and iOS 20 Safari® iOS 10

See e.g., https://www.freeconferencecall.com/video-conferencing

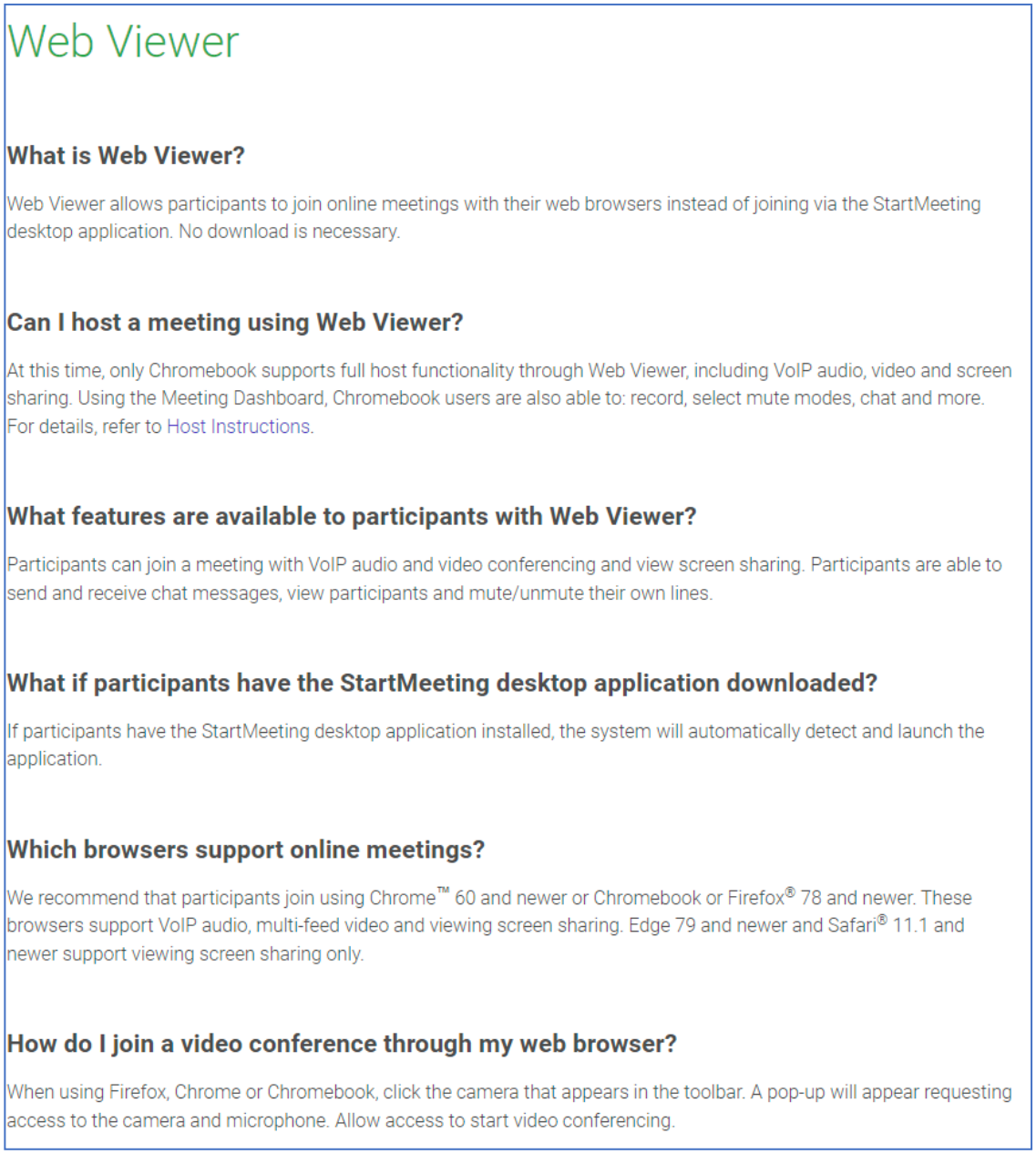
124. On information and belief, one or more components of the CarrierX System employs and provides a method for recording audio and video material over an Internet connection established between a user front end and a host back end, comprising delivering, in response to a user interaction, a first code from the host back end over an Internet connection each time recording of audio and video material is sought to be initiated; said first code configured to be executed at the user front end and to initiate the streaming of audio and video material as it is being captured by one or more capturing devices at the user front end to the host back end, wherein said first code is not installed at the user front end



See e.g., https://www.startmeeting.com/host-instructions



See e.g., https://www.startmeeting.com/user-guide



Web Viewer

What is Web Viewer?

Web Viewer allows participants to join online meetings with their web browsers instead of joining via the StartMeeting desktop application. No download is necessary.

Can I host a meeting using Web Viewer?

At this time, only Chromebook supports full host functionality through Web Viewer, including VoIP audio, video and screen sharing. Using the Meeting Dashboard, Chromebook users are also able to: record, select mute modes, chat and more. For details, refer to Host Instructions.

What features are available to participants with Web Viewer?

Participants can join a meeting with VoIP audio and video conferencing and view screen sharing. Participants are able to send and receive chat messages, view participants and mute/unmute their own lines.

What if participants have the StartMeeting desktop application downloaded?

If participants have the StartMeeting desktop application installed, the system will automatically detect and launch the application.

Which browsers support online meetings?

We recommend that participants join using Chrome™ 60 and newer or Chromebook or Firefox® 78 and newer. These browsers support VoIP audio, multi-feed video and viewing screen sharing. Edge 79 and newer and Safari® 11.1 and newer support viewing screen sharing only.

How do I join a video conference through my web browser?

When using Firefox, Chrome or Chromebook, click the camera that appears in the toolbar. A pop-up will appear requesting access to the camera and microphone. Allow access to start video conferencing.

See e.g., https://www.startmeeting.com/support

///

///

How to record:

1. Launch the desktop application and click **Record.** Or, click **Host** and then **Record.** on the Meeting Dashboard. You can also use this feature to create a Studio presentation.
2. Select recording options (audio, screen sharing, video) and Continue.
3. Choose your audio preference and/or items to share.
4. Recording will begin immediately. **Note:** Only one video feed will be recorded based on the active speaker.
5. To stop recording, click **Record**. **Note:** When you exit the meeting and close the Meeting Dashboard, a pop-up window will appear with a link to your recording. Access the recording by clicking the link, copy the link to clipboard or go to History & Recordings from your Meeting Wall.

You can also record an online meeting with your iOS device.

To enable recording on your iOS device:

1. Add Screen Recording to the Control Center on your iOS device by tapping **Settings**, selecting **Control Center** then **Customize Controls**.
2. In the MORE CONTROLS list, tap + to add Screen Recording.
3. Swipe up to view the Control Center and see the Screen Recording icon.

To record a screen sharing and/or video session during your meeting by using Screen Recording:

1. Open the StartMeeting app. (If you don't have it, download it in the App Store.)
2. Tap **Host** to start a meeting.
3. Begin screen sharing and/or video conferencing.
4. Open the iOS Control Center.
5. Press and hold **Screen Recording** to show more options and tap **SM ScreenSharing**.
6. Tap **Start Broadcast**.

Note: When you are finished with the meeting, the recording will be available from the FreeConferenceCall.com app under Recordings or online in the History & Recording section of your Account Info page.

See e.g., https://www.startmeeting.com/host-instructions

What's video recording?

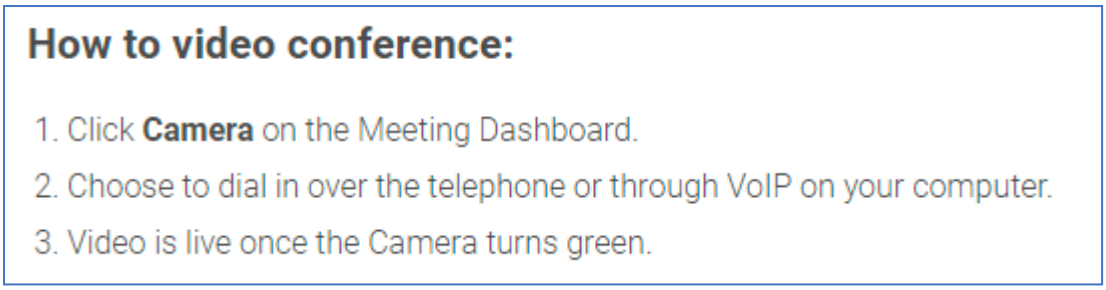
A video recording lets users record their conferences and save their conversations for later. Share your recordings with participants that missed the chat or want to review the key points of the conversation.

How do I record my video during a conference?

To video record using FreeConferenceCall, join a conference and enable the Record feature by clicking the Record button. When you're finished recording, click the button again to end. Your video recording will appear in your account's dashboard.

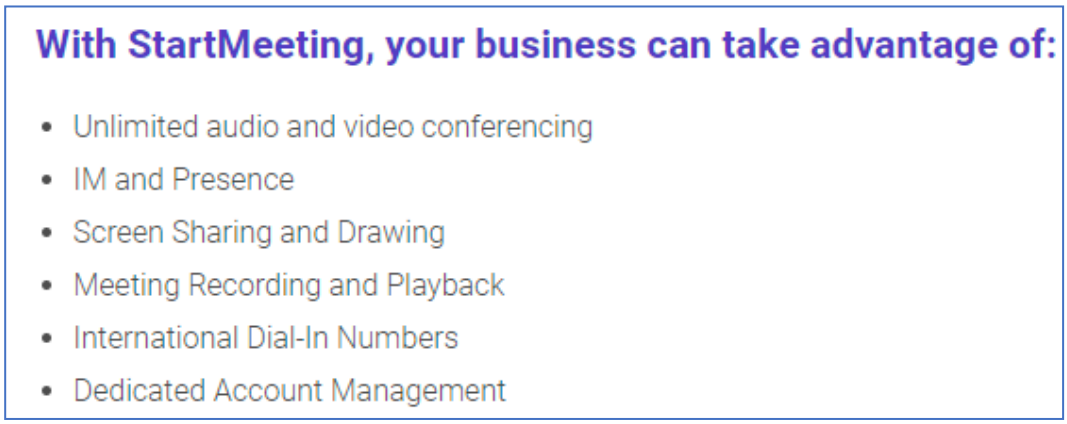
See e.g., https://www.freeconferencecall.com/video-recording

125. On information and belief, one or more components of the CarrierX System employs and provides a method for recording audio and video material over an Internet connection established between a user front end and a host back end comprising streaming the audio and video material, as it is being captured by said one or more capturing devices, from the user front end to the host back end. *See e.g., Id.*



See e.g., https://www.startmeeting.com/host-instructions

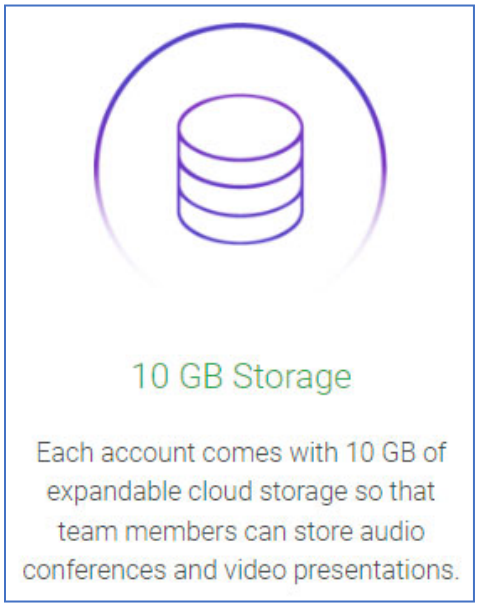
126. On information and belief, one or more components of the CarrierX System employs and provides a method for recording audio and video material over an Internet connection established between a user front end and a host back end, comprising recording on the host back end the audio and video material streamed over the Internet connection. *See e.g., Id.*



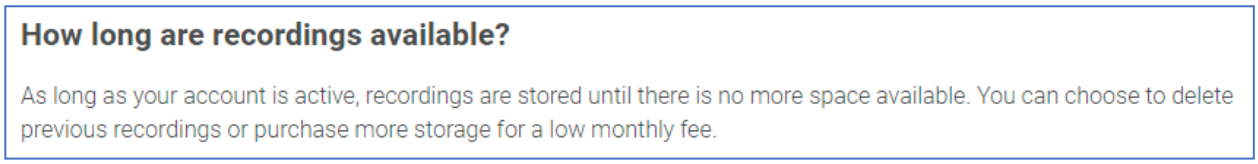
See e.g., https://www.startmeeting.com/enterprise

///

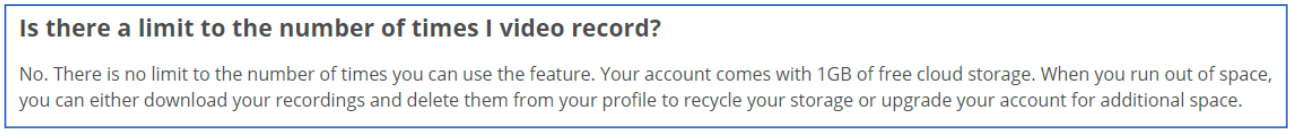
///



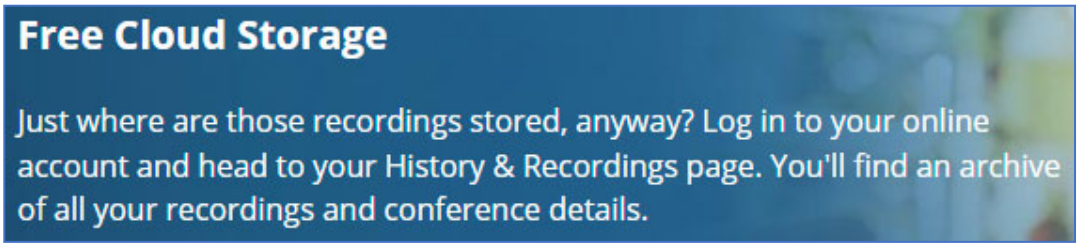
See e.g., https://www.startmeeting.com/conference-features



See e.g., https://www.startmeeting.com/support



See e.g., https://www.freeconferencecall.com/video-recording



See e.g., https://www.freeconferencecall.com/video-recording

127. On information and belief, CarrierX directly infringes at least claim 1 of the '142 patent and is in violation of 35 U.S.C. § 271(a) by making, using, selling, importing, and/or offering to sell the CarrierX Products and

services; and making, using, selling, selling access to, importing, offering for sale, and/or offering to sell access to the CarrierX System.

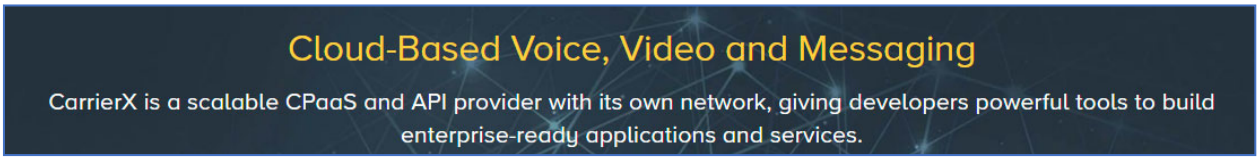
128. CarrierX's direct indirect infringement has damaged Onstream and caused it to suffer and continue to suffer irreparable harm and damages.

Count VII – Infringement of United States Patent No. 10,848,707

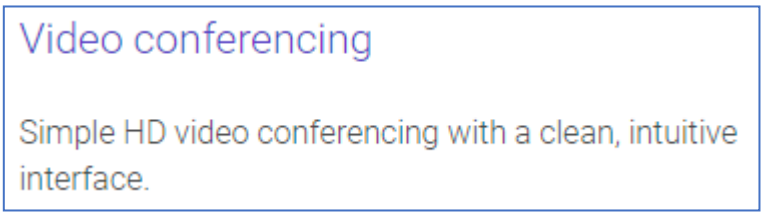
129. Onstream repeats, realleges, and incorporates by reference, as if fully set forth here, the allegations of the preceding paragraphs above.

130. On information and belief, CarrierX (or those acting on its behalf) makes, uses, sells, imports and/or offers to sell the CarrierX Products and Services; and makes, uses, sells, sells access to, imports, offers to sell and/or offers to sell access to the CarrierX System in the United States that infringe (literally and/or under the doctrine of equivalents) at least claim of the '707 patent.

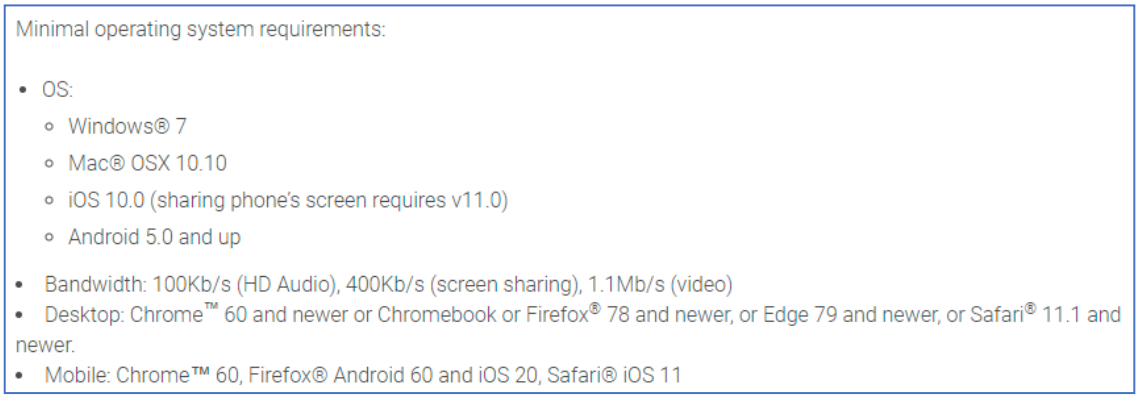
131. On information and belief, one or more components of the CarrierX System employs and provides a method comprising receiving, at one or more host back end application servers through at least a packet-based network connection, (*e.g.* an Internet connection) streamed digital audio and digital video material being streamed from a front end digital audio and digital video capturing device, wherein the streamed digital audio and digital video material is captured on the front end digital audio and digital video capturing device without requiring on the front end digital audio and digital video capturing device local installation of recording software that is configured to record digital audio and digital video material as a complete file to a local storage memory.



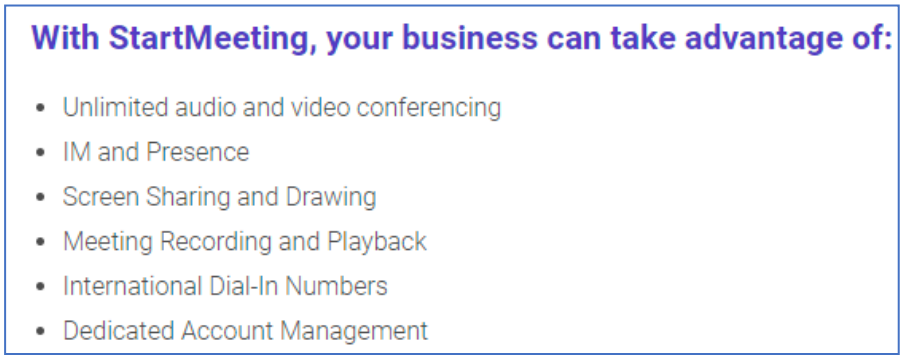
See e.g., https://www.carrierx.com/



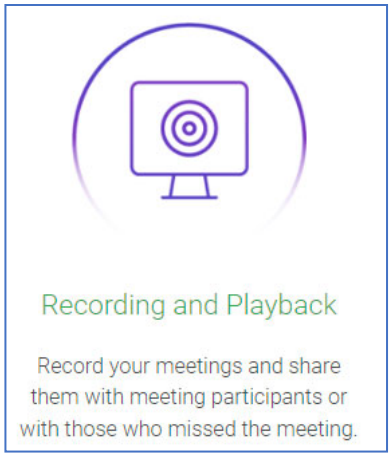
See e.g., https://www.startmeeting.com/conference-features



See e.g., https://www.startmeeting.com/support



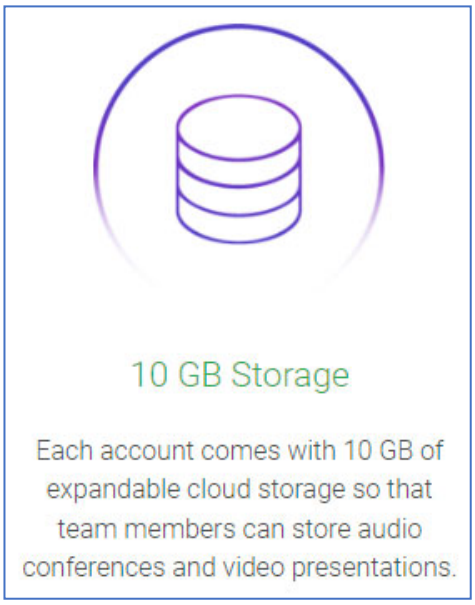
See e.g., https://www.startmeeting.com/enterprise



See e.g., https://www.startmeeting.com/conference-features

> **Note:** When you are finished with the meeting, the recording will be available from the FreeConferenceCall.com app under Recordings or online in the History & Recording section of your Account Info page.

See e.g., https://www.startmeeting.com/host-instructions

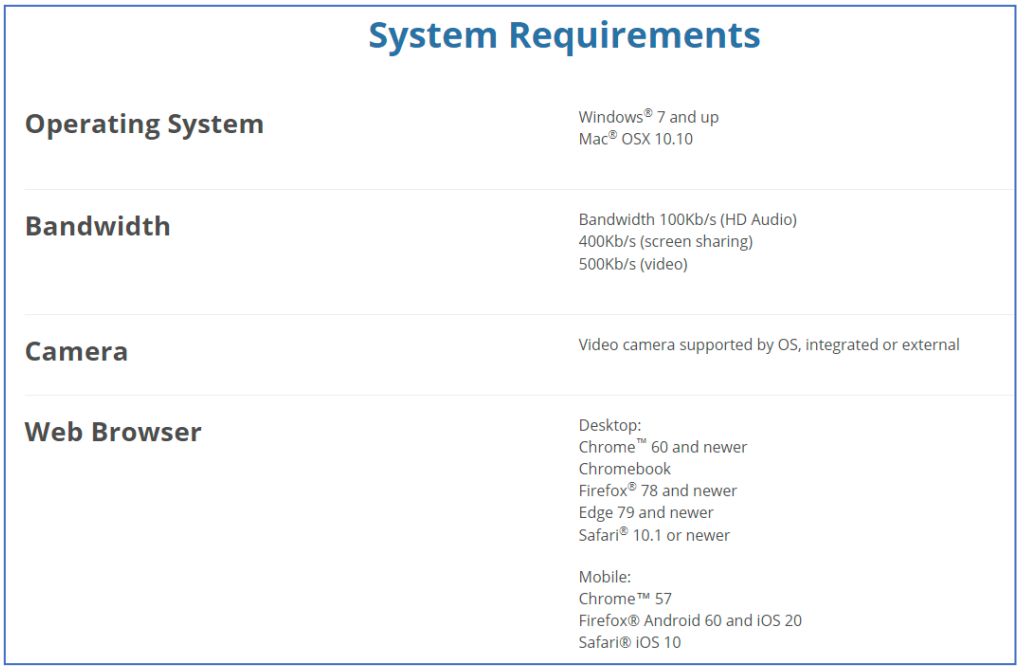


See e.g., https://www.startmeeting.com/conference-features

See e.g., https://www.freeconferencecall.com/

///

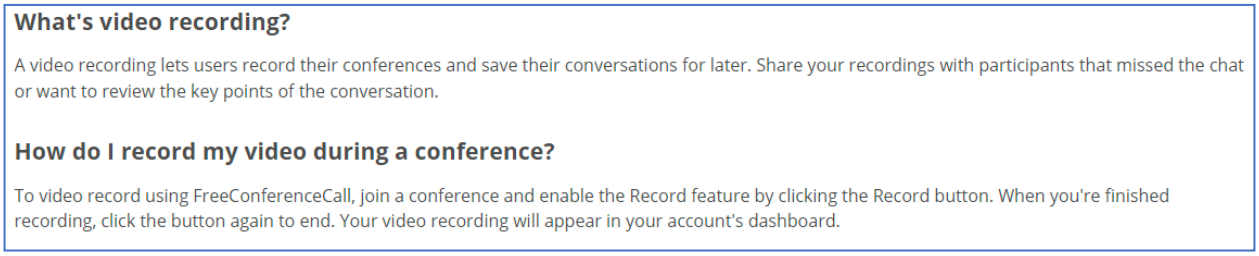
///



System Requirements

Operating System	Windows® 7 and up Mac® OSX 10.10
Bandwidth	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
Camera	Video camera supported by OS, integrated or external
Web Browser	Desktop: Chrome™ 60 and newer Chromebook Firefox® 78 and newer Edge 79 and newer Safari® 10.1 or newer Mobile: Chrome™ 57 Firefox® Android 60 and iOS 20 Safari® iOS 10

See e.g., https://www.freeconferencecall.com/video-conferencing



What's video recording?

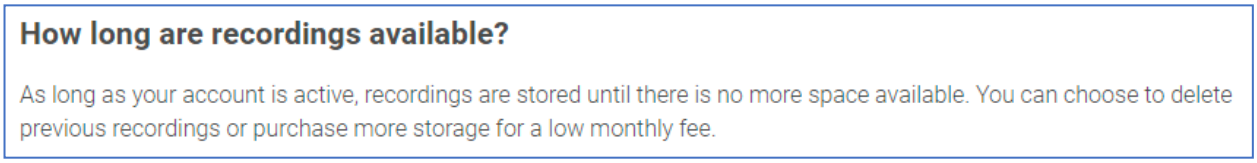
A video recording lets users record their conferences and save their conversations for later. Share your recordings with participants that missed the chat or want to review the key points of the conversation.

How do I record my video during a conference?

To video record using FreeConferenceCall, join a conference and enable the Record feature by clicking the Record button. When you're finished recording, click the button again to end. Your video recording will appear in your account's dashboard.

See e.g., https://www.freeconferencecall.com/video-recording

132. On information and belief, one or more components of the CarrierX System employs and provides a method comprising remotely recording the streamed digital audio and digital video material over at least the packet-based network connection at the one or more host back end application servers as a sequentially stored file. *See e.g., Id.*



How long are recordings available?

As long as your account is active, recordings are stored until there is no more space available. You can choose to delete previous recordings or purchase more storage for a low monthly fee.

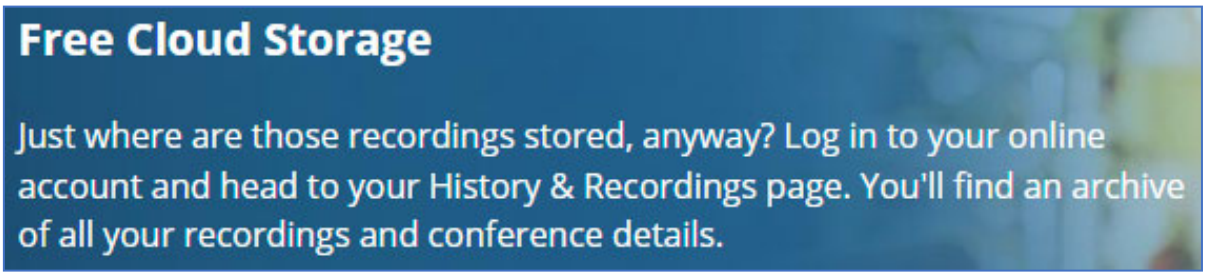
See e.g., https://www.startmeeting.com/support

> Access the recording from the History & Recordings page. The recording can be downloaded and shared or shared via a link that is pasted into an email, to social media or on a website.

See e.g., https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf

> **Is there a limit to the number of times I video record?**
>
> No. There is no limit to the number of times you can use the feature. Your account comes with 1GB of free cloud storage. When you run out of space, you can either download your recordings and delete them from your profile to recycle your storage or upgrade your account for additional space.

See e.g., https://www.freeconferencecall.com/video-recording



See e.g., https://www.freeconferencecall.com/video-recording

133. On information and belief, one or more components of the CarrierX System employs and provides a method comprising generating a pointer comprising a URL associated with the sequentially stored file to facilitate accessing of the sequentially stored file.

> Access the recording from the History & Recordings page. The recording can be downloaded and shared or shared via a link that is pasted into an email, to social media or on a website.

See e.g., https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf

134. On information and belief, one or more components of the CarrierX System employs and provides a method comprising enabling additional digital material comprising (i) digital still image material, (ii) digital audio material, (iii) digital video material, (iv) digital video

material and digital audio material, (v) digital still image material and digital video material, (vi) digital still image material and digital audio material, or (vii) digital still image material, digital audio material, and digital video material, to be associated with the sequentially stored file at the one or more host back end application servers.

135. On information and belief, one or more components of the CarrierX System employs and provides a method comprising providing remote user access to the sequentially stored file and the additional digital material in response to activation of the pointer comprising the URL.

> **How long are recordings available?**
>
> As long as your account is active, recordings are stored until there is no more space available. You can choose to delete previous recordings or purchase more storage for a low monthly fee.

See e.g., https://www.startmeeting.com/support

> Access the recording from the History & Recordings page. The recording can be downloaded and shared or shared via a link that is pasted into an email, to social media or on a website.

See e.g., https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf

136. On information and belief, CarrierX directly infringes at least claim 1 '707 patent and is in violation of 35 U.S.C. § 271(a) by making, using, selling, importing, and/or offering to sell the CarrierX Products and services; and making, using, selling, selling access to, importing, offering for sale, and/or offering to sell access to the CarrierX System.

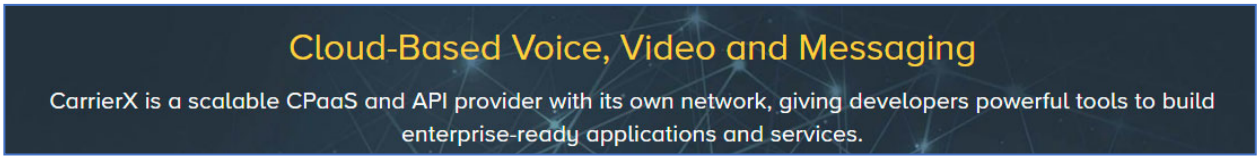
137. CarrierX's direct infringement has damaged Onstream and caused it to suffer and continue to suffer irreparable harm and damages.

Count VIII – Infringement of United States Patent No. 10,951,855

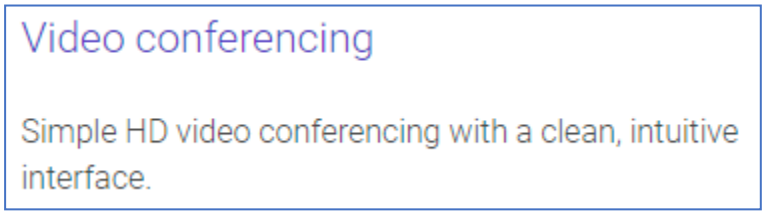
138. Onstream repeats, realleges, and incorporates by reference, as if fully set forth here, the allegations of the preceding paragraphs above.

139. On information and belief, CarrierX (or those acting on its behalf) makes, uses, sells, imports and/or offers to sell the CarrierX Products and Services; and makes, uses, sells, sells access to, imports, offers to sell and/or offers to sell access to the CarrierX System in the United States that infringe (literally and/or under the doctrine of equivalents) at least claim 1 of the '855 patent.

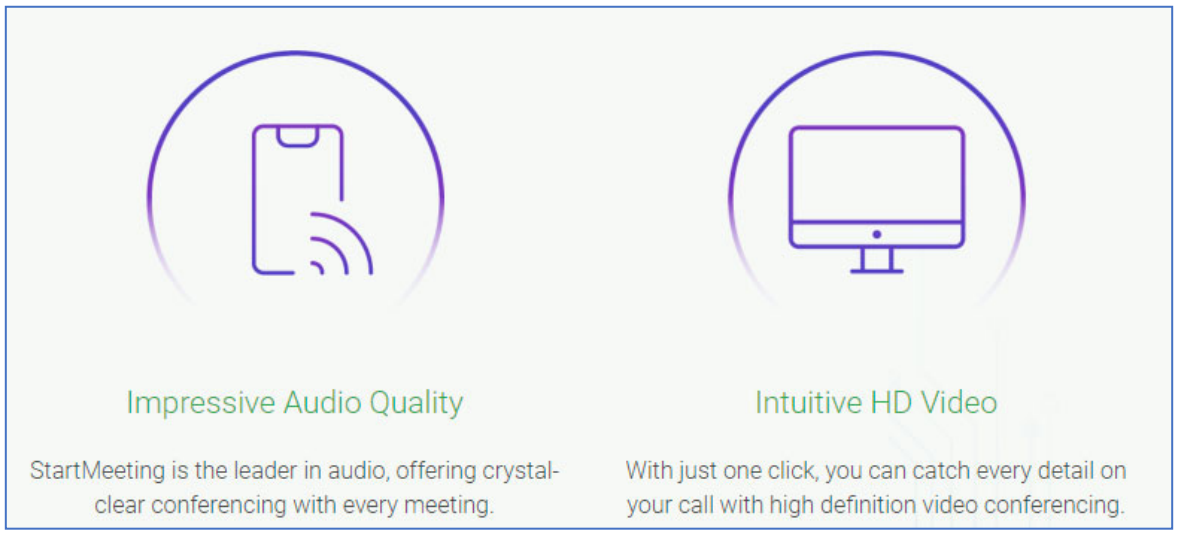
140. On information and belief, one or more components of the CarrierX System comprise a secure distributed digital audio and digital video recording system.



See e.g., https://www.carrierx.com/



See e.g., https://www.startmeeting.com/conference-features

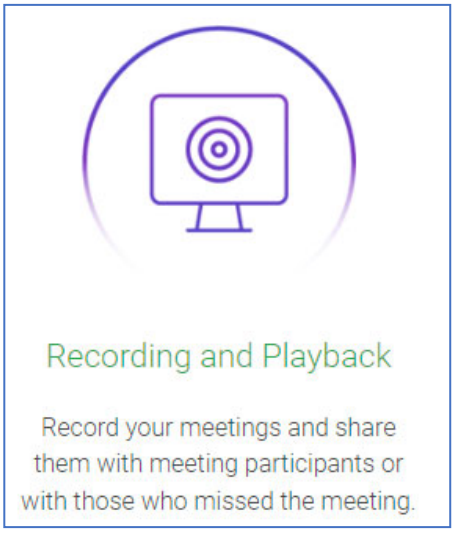


See e.g., https://www.startmeeting.com/

With StartMeeting, your business can take advantage of:

- Unlimited audio and video conferencing
- IM and Presence
- Screen Sharing and Drawing
- Meeting Recording and Playback
- International Dial-In Numbers
- Dedicated Account Management

See e.g., https://www.startmeeting.com/enterprise



See e.g., https://www.startmeeting.com/conference-features

What's video recording?

A video recording lets users record their conferences and save their conversations for later. Share your recordings with participants that missed the chat or want to review the key points of the conversation.

How do I record my video during a conference?

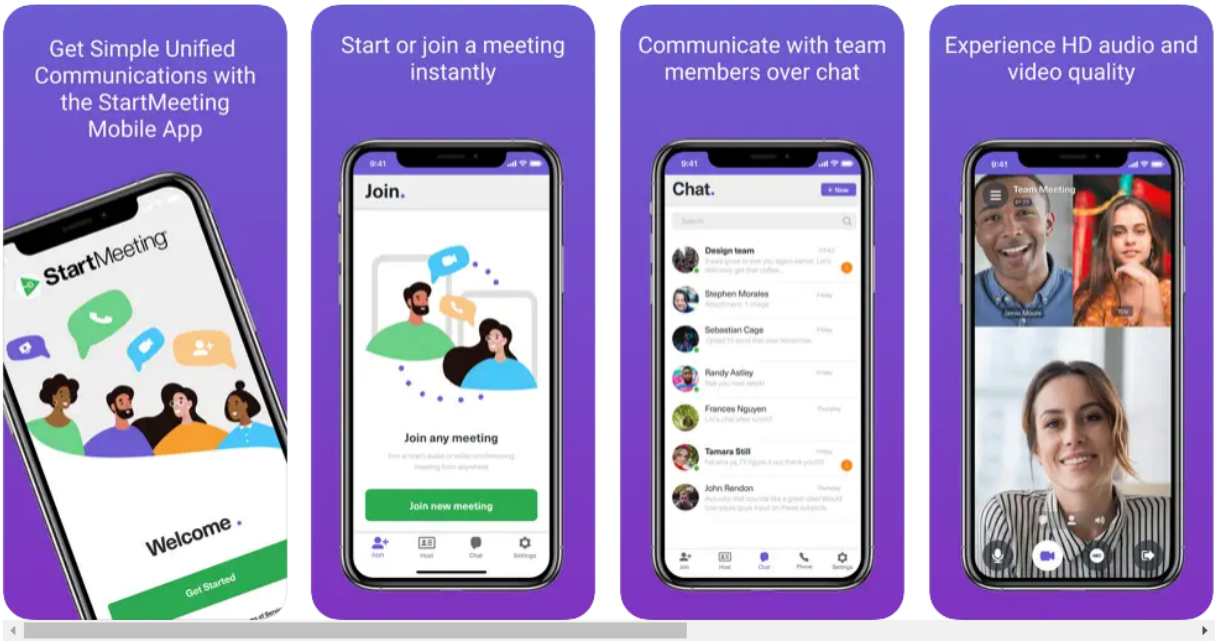
To video record using FreeConferenceCall, join a conference and enable the Record feature by clicking the Record button. When you're finished recording, click the button again to end. Your video recording will appear in your account's dashboard.

See e.g., https://www.freeconferencecall.com/video-recording

141. On information and belief, one or more components of the CarrierX System comprise a secure distributed digital audio and digital video recording system comprising an application configured to operate on a mobile front end digital audio and digital video capturing device.

Start Meeting
CarrierX LLC
★★★★★ 4.1 • 150 Ratings
Free

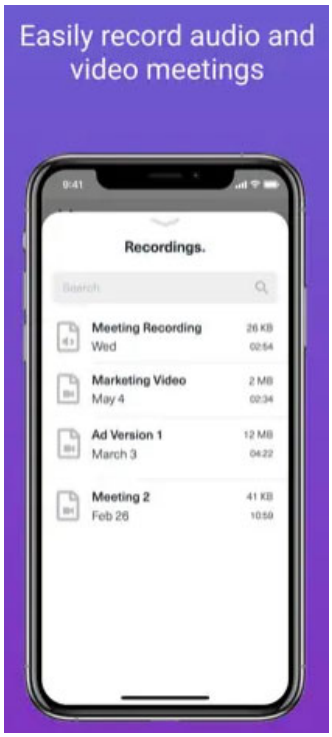
See e.g., https://apps.apple.com/us/app/start-meeting/id508871606



See e.g., https://apps.apple.com/us/app/start-meeting/id508871606

///

///



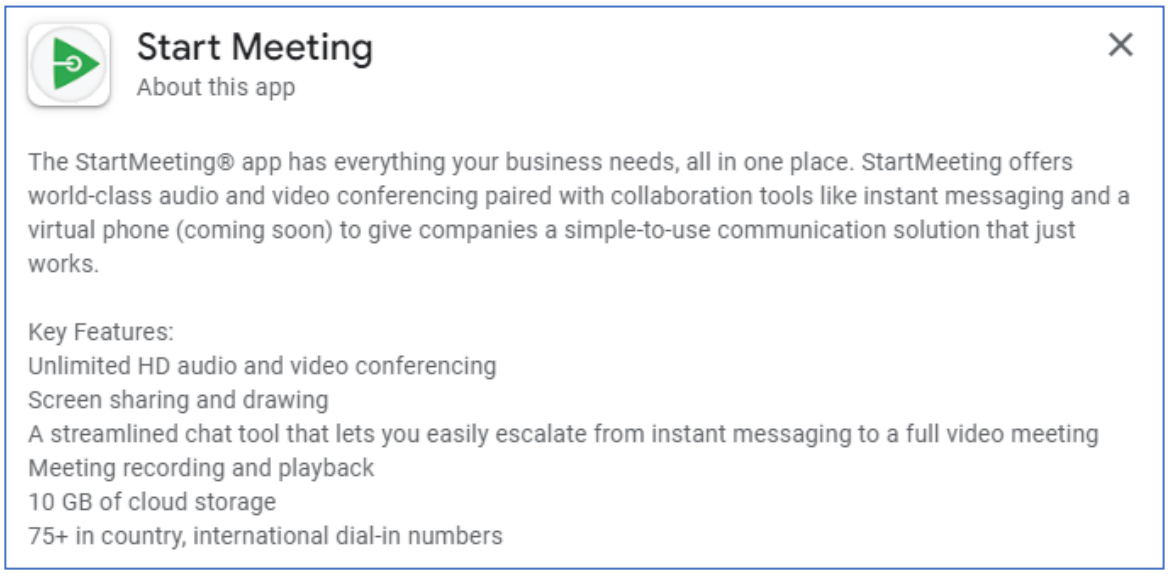
See e.g., https://apps.apple.com/us/app/start-meeting/id508871606

See e.g.,

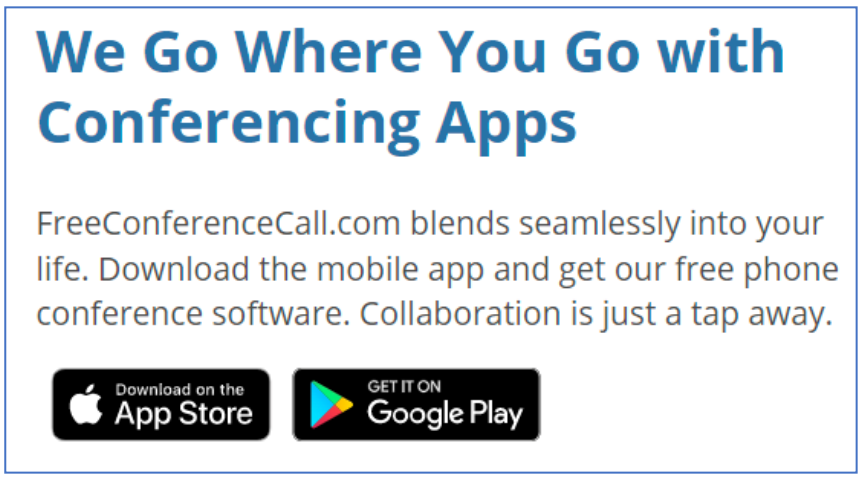
https://play.google.com/store/apps/details?id=com.startmeeting&hl=en_US&gl=US

///

///

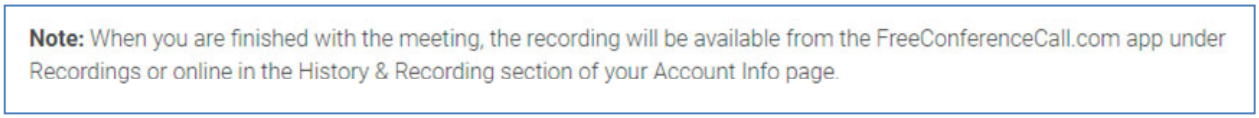


See e.g., https://play.google.com/store/apps/details?id=com.startmeeting&hl=en_US&gl=US

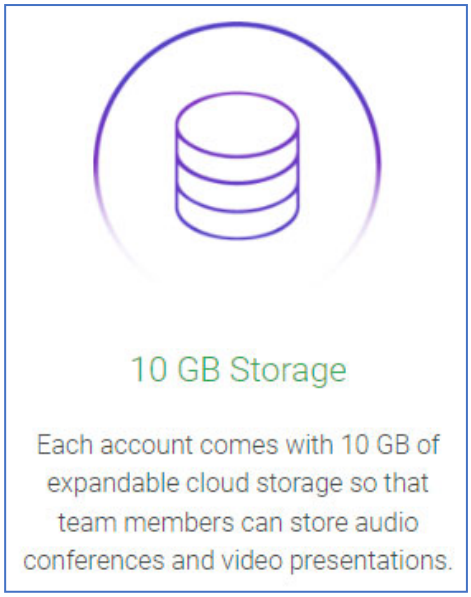


See e.g., https://www.freeconferencecall.com/

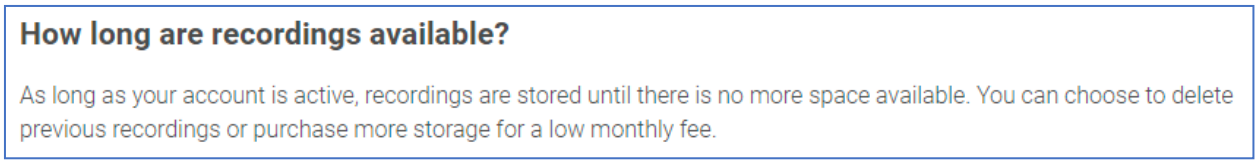
142. On information and belief, one or more components of the CarrierX System comprise a secure distributed digital audio and digital video recording system comprising a host back end application server system comprising one or more host back end application servers.



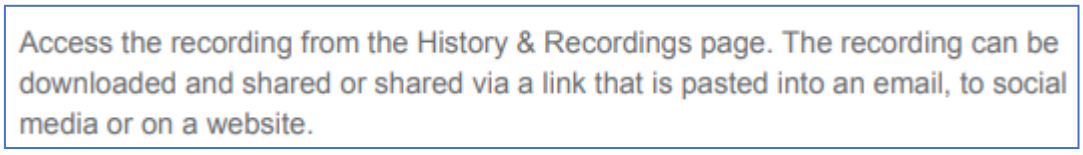
See e.g., https://www.startmeeting.com/host-instructions



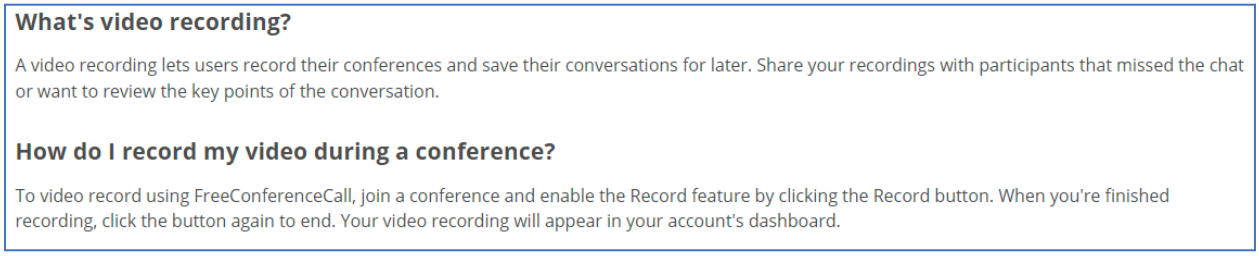
See e.g., https://www.startmeeting.com/conference-features



See e.g., https://www.startmeeting.com/support

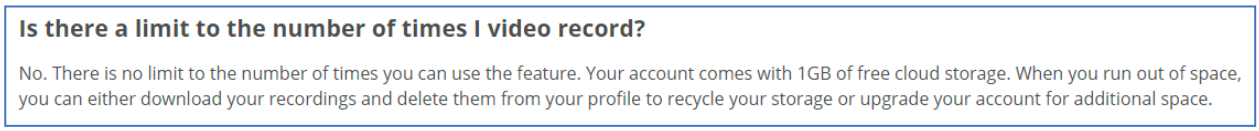


See e.g., https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf

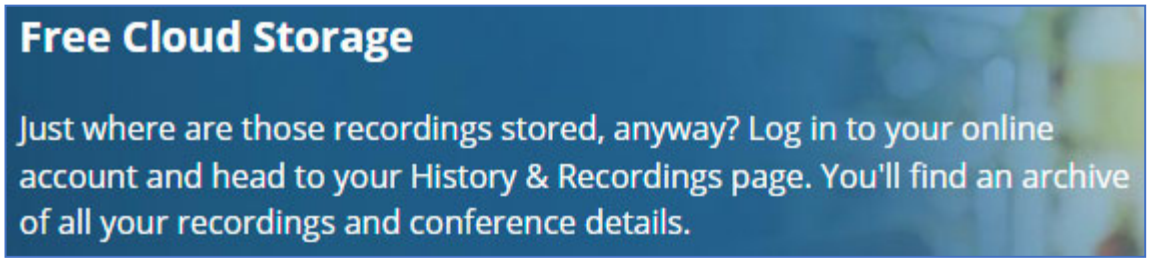


See e.g., https://www.freeconferencecall.com/video-recording

///

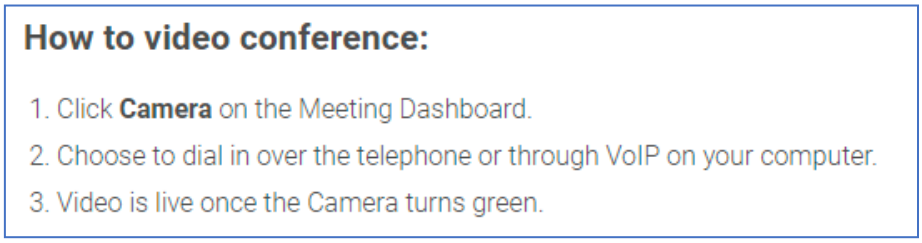


See e.g., https://www.freeconferencecall.com/video-recording



See e.g., https://www.freeconferencecall.com/video-recording

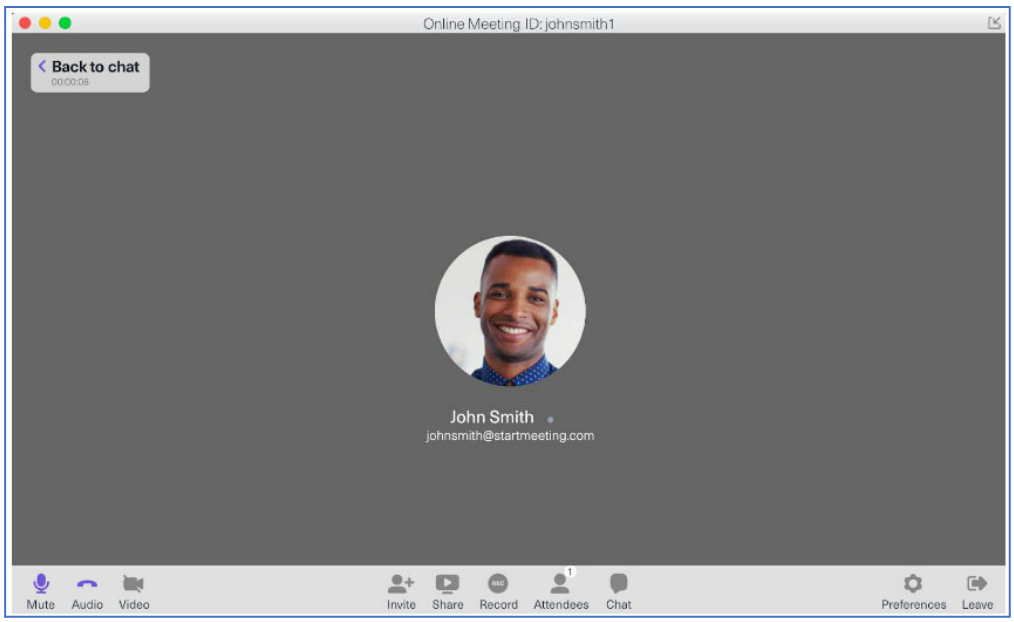
143. On information and belief, one or more components of the CarrierX System comprise a secure distributed digital audio and digital video recording system wherein in response to an interaction with a user, the host back end application server system delivers to the application, each time recording of digital audio and digital video material is sought to be initiated, a stream number that is associated with an account of the user.



See e.g., https://www.startmeeting.com/host-instructions

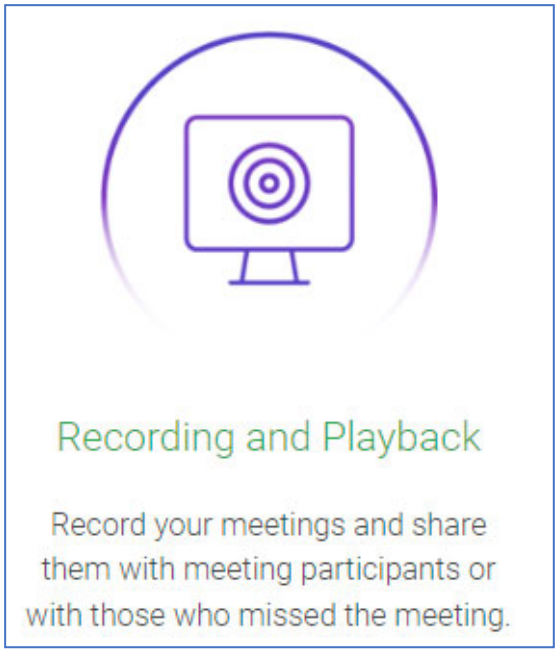
///

///

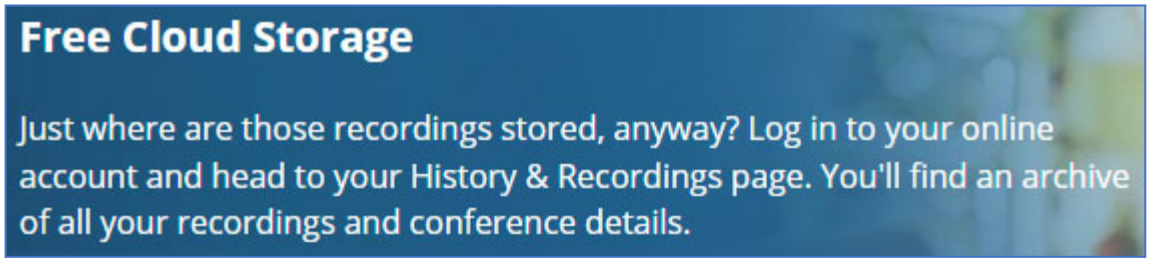


See e.g., https://www.startmeeting.com/user-guide

144. On information and belief, one or more components of the CarrierX System comprise a secure distributed digital audio and digital video recording system wherein the application is configured to use the stream number to initiate secure streaming of digital audio and digital video material to the host back end application server system. *See e.g., Id.*



See e.g., https://www.startmeeting.com/conference-features



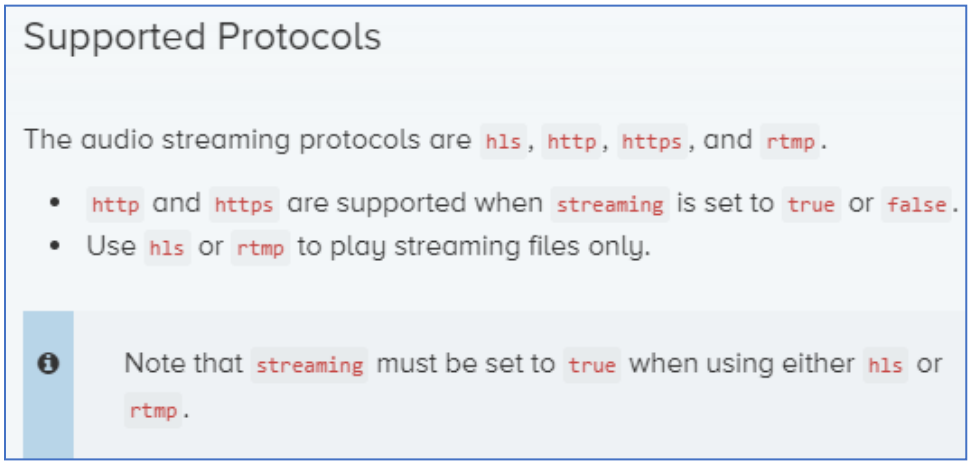
See e.g., https://www.freeconferencecall.com/video-recording

145. On information and belief, one or more components of the CarrierX System comprise a secure distributed digital audio and digital video recording system wherein the digital audio and digital video material is not stored as a complete file on the mobile front end digital audio and digital video capturing device prior to initiation of the secure streaming of the digital audio and digital video material to the host back end application server system. *See e.g., Id.*

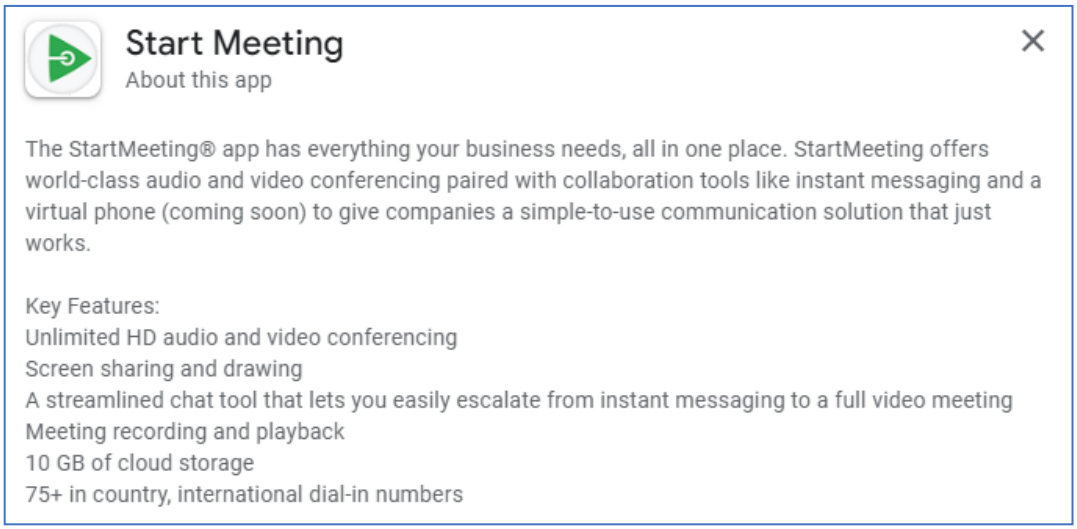
146. On information and belief, one or more components of the CarrierX System comprise a secure distributed digital audio and digital video recording system wherein the application is configured to use a secure real time messaging protocol to securely stream the digital audio and digital video material from the mobile front end digital audio and digital video capturing device over at least a packet-based network connection (*e.g.*, the Internet), to the host back end application server system, as the digital audio and digital video material is being captured by the mobile front end digital audio and digital video capturing device. *See e.g., Id.*

147. On information and belief, one or more components of the CarrierX System comprise a secure distributed digital audio and digital video recording system wherein the application is capable of securely streaming the digital audio and digital video material without requiring local installation and concurrent execution on the mobile front end digital audio and digital video capturing device of an additional custom recording software

application that is configured to record digital audio and digital video material as a complete file to a local storage memory.



See e.g., https://www.carrierx.com/documentation/flexml-api#request-data-3



See e.g.,
https://play.google.com/store/apps/details?id=com.startmeeting&hl=en_US&gl=US

///

///

> It's incredibly easy to get started. Simply download the app, create an account, and you're ready to host your first meeting. Set your meeting time and share your credentials with your participants and you're good to go. We built StartMeeting with the end user in mind so it is incredibly simple to use, streamlined, and just works the way you'd want it to work. We offer a 30 day free trial to new users so download it today. We think you'll love it.

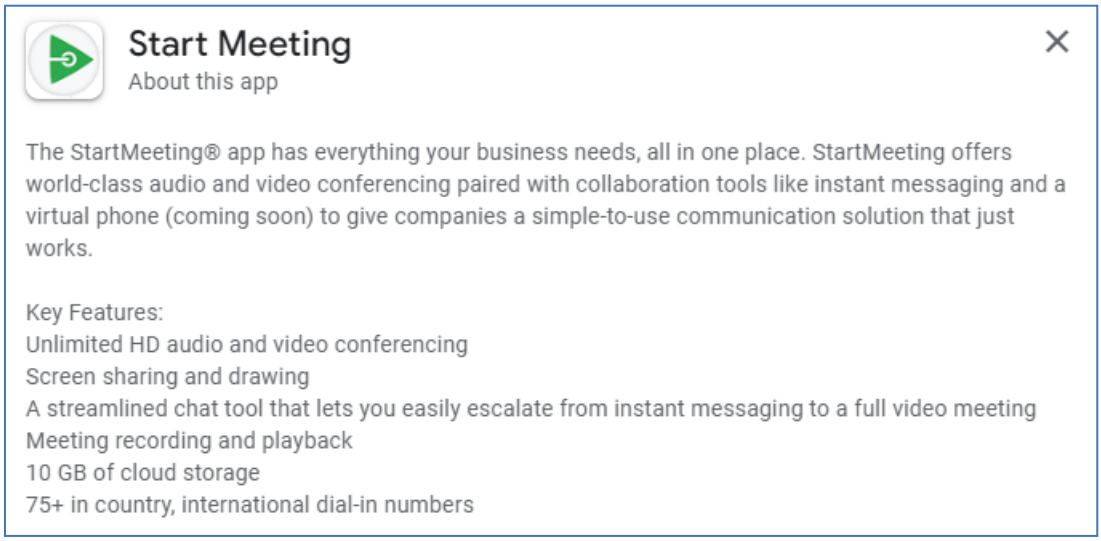
See e.g., https://play.google.com/store/apps/details?id=com.startmeeting&hl=en_US&gl=US

148. On information and belief, one or more components of the CarrierX System comprise a secure distributed digital audio and digital video recording system wherein at least one host back end application server records the digital audio and digital video material securely streamed from the mobile front end digital audio and digital video capturing device. *See e.g., Id.*

See e.g., https://apps.apple.com/us/app/start-meeting/id508871606

///

///



See e.g.,

https://play.google.com/store/apps/details?id=com.startmeeting&hl=en_US&gl=US

149. On information and belief, CarrierX directly infringes at least claim 1 of the '855 patent and is in violation of 35 U.S.C. § 271(a) by making, using, selling, importing, and/or offering to sell the CarrierX Products and services; and making, using, selling, selling access to, importing, offering for sale, and/or offering to sell access to the CarrierX System.

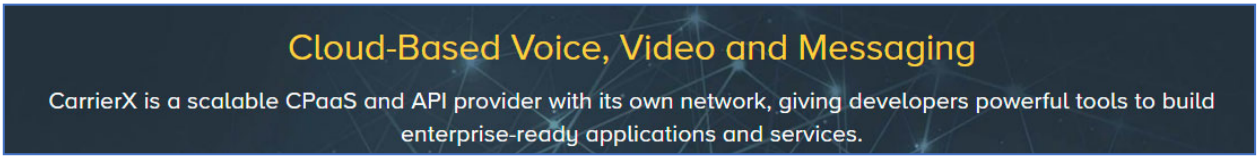
150. CarrierX's direct infringement has damaged Onstream and caused it to suffer and continue to suffer irreparable harm and damages.

Count IX – Infringement of United States Patent No. 11,128,833

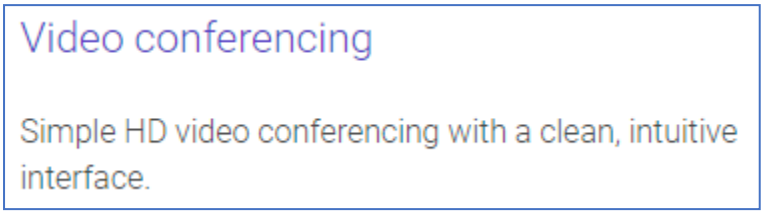
151. Onstream repeats, realleges, and incorporates by reference, as if fully set forth here, the allegations of the preceding paragraphs above.

152. On information and belief, CarrierX (or those acting on its behalf) makes, uses, sells, imports and/or offers to sell the CarrierX Products and Services; and makes, uses, sells, sells access to, imports, offers to sell and/or offers to sell access to the CarrierX System in the United States that infringe (literally and/or under the doctrine of equivalents) at least claim 1 of the '833 patent.

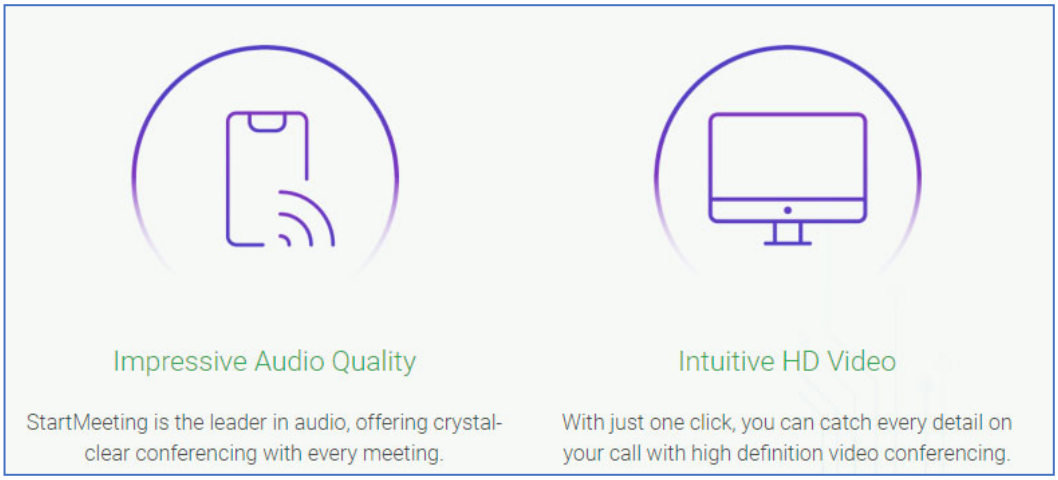
153. On information and belief, one or more components of the CarrierX System employs and provides a method for network-based recording and delivery of digital audio and digital video material.



See e.g., https://www.carrierx.com/



See e.g., https://www.startmeeting.com/conference-features



See e.g., https://www.startmeeting.com/

///

///

Minimal operating system requirements:

- OS:
  - Windows® 7
  - Mac® OSX 10.10
  - iOS 10.0 (sharing phone's screen requires v11.0)
  - Android 5.0 and up
- Bandwidth: 100Kb/s (HD Audio), 400Kb/s (screen sharing), 1.1Mb/s (video)
- Desktop: Chrome™ 60 and newer or Chromebook or Firefox® 78 and newer, or Edge 79 and newer, or Safari® 11.1 and newer.
- Mobile: Chrome™ 60, Firefox® Android 60 and iOS 20, Safari® iOS 11

See e.g., https://www.startmeeting.com/support

With StartMeeting, your business can take advantage of:

- Unlimited audio and video conferencing
- IM and Presence
- Screen Sharing and Drawing
- Meeting Recording and Playback
- International Dial-In Numbers
- Dedicated Account Management

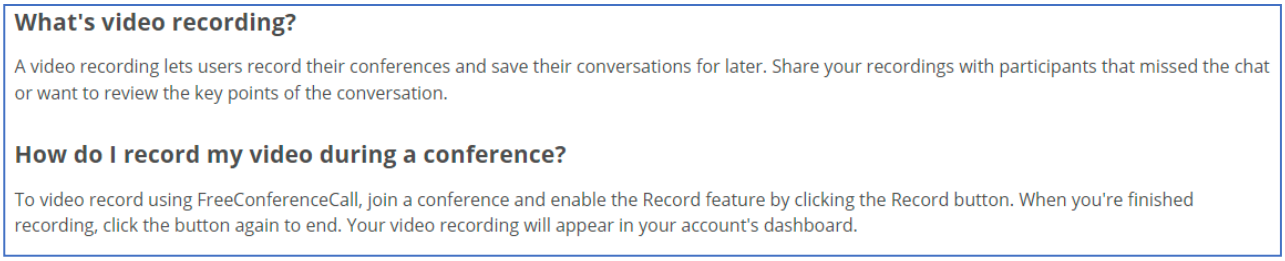
See e.g., https://www.startmeeting.com/enterprise

Recording and Playback

Record your meetings and share them with meeting participants or with those who missed the meeting.

See e.g., https://www.startmeeting.com/conference-features

See e.g., https://www.freeconferencecall.com/



See e.g., https://www.freeconferencecall.com/video-recording

154. On information and belief, one or more components of the CarrierX System employs and provides a method for network-based recording and delivery of digital audio and digital video material comprising recording, over a packet-based network connection, (*e.g.*, the Internet) at a host back end, digital audio and digital video material that originates from a user front end without using any recording software installed on the user front end. *See e.g., Id.*

///

///

Minimal operating system requirements:

- OS:
  - Windows® 7
  - Mac® OSX 10.10
  - iOS 10.0 (sharing phone's screen requires v11.0)
  - Android 5.0 and up
- Bandwidth: 100Kb/s (HD Audio), 400Kb/s (screen sharing), 1.1Mb/s (video)
- Desktop: Chrome™ 60 and newer or Chromebook or Firefox® 78 and newer, or Edge 79 and newer, or Safari® 11.1 and newer.
- Mobile: Chrome™ 60, Firefox® Android 60 and iOS 20, Safari® iOS 11

See e.g., https://www.startmeeting.com/support

What devices are compatible with online meetings?

Online meetings work on PCs, Macs® , Chromebooks™, iOS and Android™ phones and tablets. Download apps

Note: Chromebooks do not require a download, so users can host or join meetings using Web Viewer. View recommended browsers and system requirements.

See e.g., https://www.startmeeting.com/support

///

///

Web Viewer

What is Web Viewer?

Web Viewer allows participants to join online meetings with their web browsers instead of joining via the StartMeeting desktop application. No download is necessary.

Can I host a meeting using Web Viewer?

At this time, only Chromebook supports full host functionality through Web Viewer, including VoIP audio, video and screen sharing. Using the Meeting Dashboard, Chromebook users are also able to: record, select mute modes, chat and more. For details, refer to Host Instructions.

What features are available to participants with Web Viewer?

Participants can join a meeting with VoIP audio and video conferencing and view screen sharing. Participants are able to send and receive chat messages, view participants and mute/unmute their own lines.

What if participants have the StartMeeting desktop application downloaded?

If participants have the StartMeeting desktop application installed, the system will automatically detect and launch the application.

Which browsers support online meetings?

We recommend that participants join using Chrome™ 60 and newer or Chromebook or Firefox® 78 and newer. These browsers support VoIP audio, multi-feed video and viewing screen sharing. Edge 79 and newer and Safari® 11.1 and newer support viewing screen sharing only.

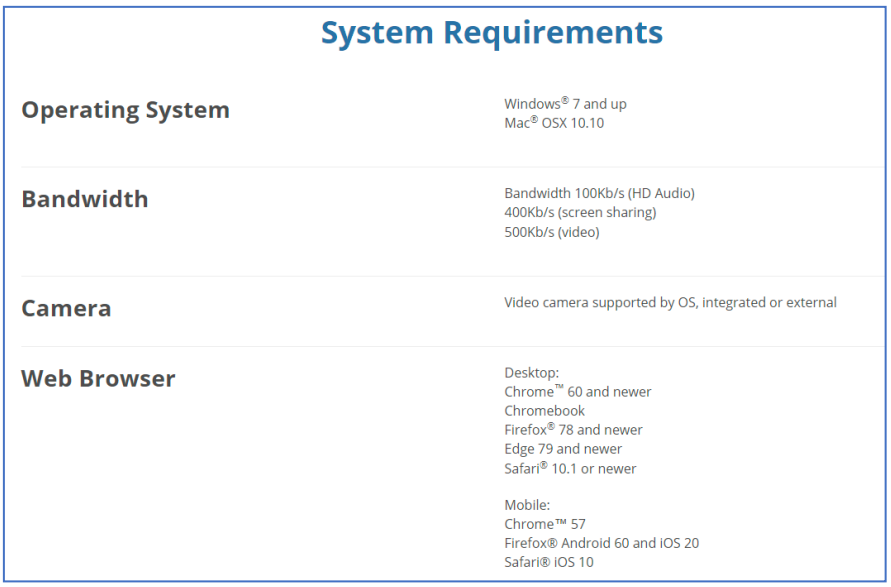
How do I join a video conference through my web browser?

When using Firefox, Chrome or Chromebook, click the camera that appears in the toolbar. A pop-up will appear requesting access to the camera and microphone. Allow access to start video conferencing.

See e.g., https://www.startmeeting.com/support

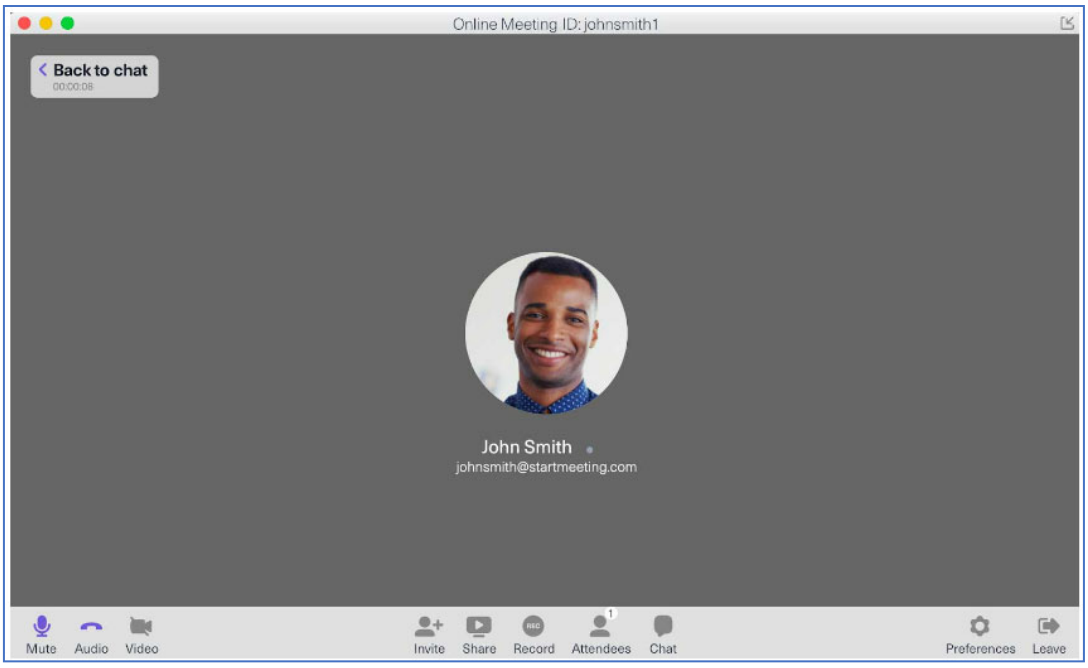
- Screen sharing tools allow users to share a specific app, window, or their entire screen with other participants, without requiring any software downloads.

See e.g., https://www.getapp.com/it-communications-software/a/startmeeting/

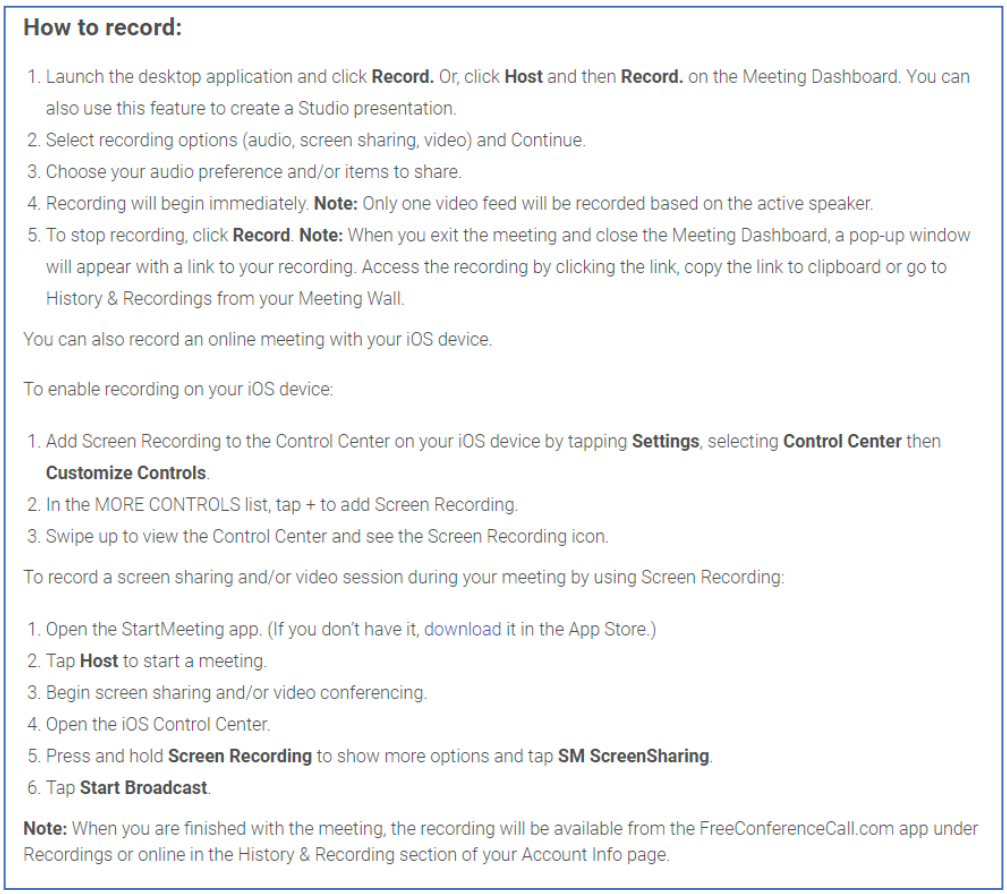


See e.g., https://www.freeconferencecall.com/video-conferencing

155. On information and belief, one or more components of the CarrierX System employs and provides a method for network-based recording and delivery of digital audio and digital video material wherein the recording is accomplished using only executable code delivered to the user front end from the host back end and a recording device on the user front end. *See e.g., Id.*



See e.g., https://www.startmeeting.com/user-guide



How to record:

1. Launch the desktop application and click **Record.** Or, click **Host** and then **Record.** on the Meeting Dashboard. You can also use this feature to create a Studio presentation.
2. Select recording options (audio, screen sharing, video) and Continue.
3. Choose your audio preference and/or items to share.
4. Recording will begin immediately. **Note:** Only one video feed will be recorded based on the active speaker.
5. To stop recording, click **Record**. **Note:** When you exit the meeting and close the Meeting Dashboard, a pop-up window will appear with a link to your recording. Access the recording by clicking the link, copy the link to clipboard or go to History & Recordings from your Meeting Wall.

You can also record an online meeting with your iOS device.

To enable recording on your iOS device:

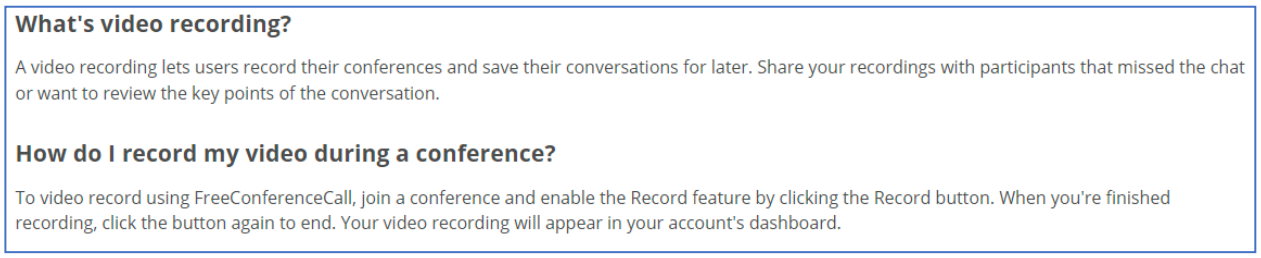
1. Add Screen Recording to the Control Center on your iOS device by tapping **Settings**, selecting **Control Center** then **Customize Controls**.
2. In the MORE CONTROLS list, tap + to add Screen Recording.
3. Swipe up to view the Control Center and see the Screen Recording icon.

To record a screen sharing and/or video session during your meeting by using Screen Recording:

1. Open the StartMeeting app. (If you don't have it, download it in the App Store.)
2. Tap **Host** to start a meeting.
3. Begin screen sharing and/or video conferencing.
4. Open the iOS Control Center.
5. Press and hold **Screen Recording** to show more options and tap **SM ScreenSharing**.
6. Tap **Start Broadcast**.

Note: When you are finished with the meeting, the recording will be available from the FreeConferenceCall.com app under Recordings or online in the History & Recording section of your Account Info page.

See e.g., https://www.startmeeting.com/host-instructions



What's video recording?

A video recording lets users record their conferences and save their conversations for later. Share your recordings with participants that missed the chat or want to review the key points of the conversation.

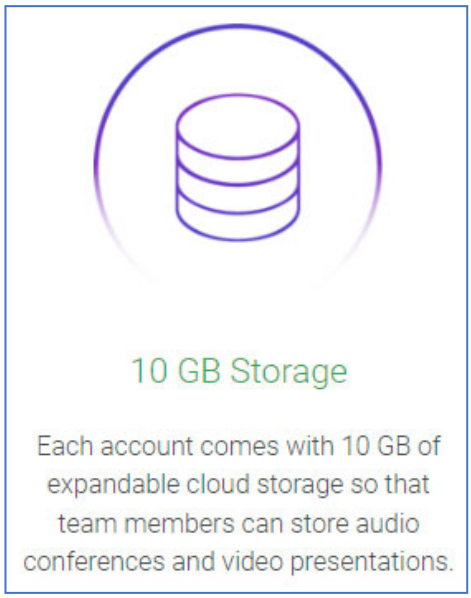
How do I record my video during a conference?

To video record using FreeConferenceCall, join a conference and enable the Record feature by clicking the Record button. When you're finished recording, click the button again to end. Your video recording will appear in your account's dashboard.

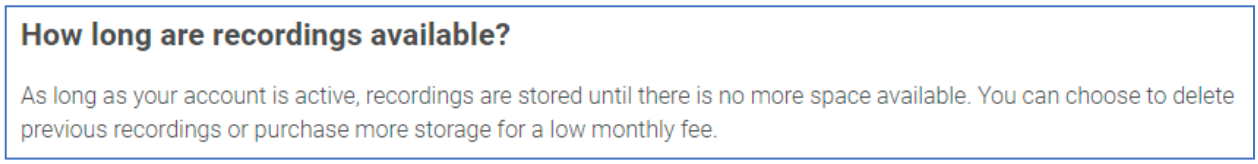
See e.g., https://www.freeconferencecall.com/video-recording

156. On information and belief, one or more components of the CarrierX System employs and provides a method for network-based recording and delivery of digital audio and digital video material comprising storing the recorded digital audio and digital video material at the host back end. *See e.g., Id.*

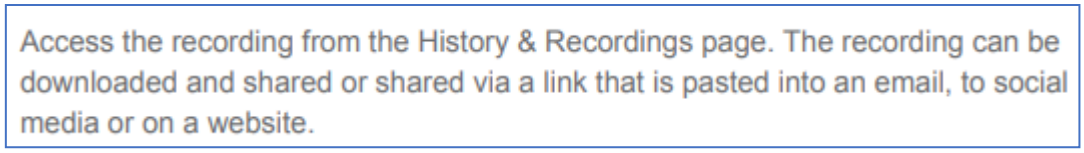
///



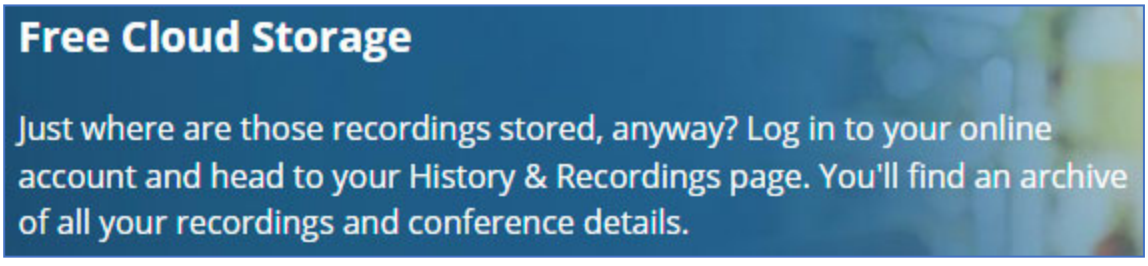
See e.g., https://www.startmeeting.com/conference-features



See e.g., https://www.startmeeting.com/support



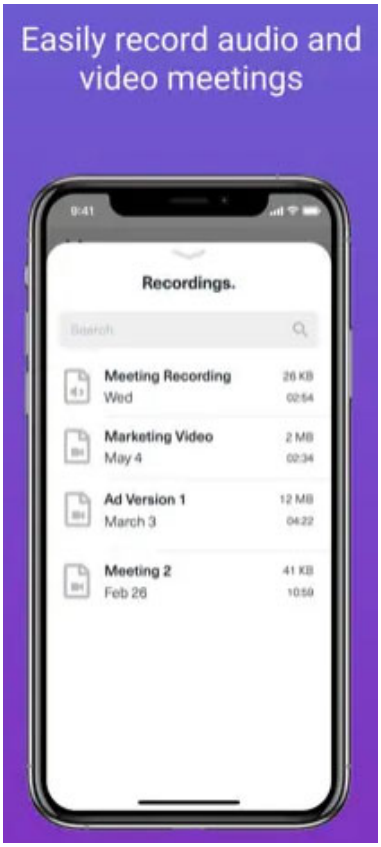
See e.g., https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf



See e.g., https://www.freeconferencecall.com/video-recording

157. On information and belief, one or more components of the CarrierX System employs and provides a method for network-based

recording and delivery of digital audio and digital video material comprising generating code associated with the stored digital audio and digital video material to facilitate accessing the stored digital audio and digital video material. *See e.g., Id.*



See e.g., https://apps.apple.com/us/app/start-meeting/id508871606

158. On information and belief, one or more components of the CarrierX System employs and provides a method for network-based recording and delivery of digital audio and digital video material comprising enabling the generated code to be activated at an additional location. *See e.g., Id.*

How long are recordings available?

As long as your account is active, recordings are stored until there is no more space available. You can choose to delete previous recordings or purchase more storage for a low monthly fee.

See e.g., https://www.startmeeting.com/support

> Access the recording from the History & Recordings page. The recording can be downloaded and shared or shared via a link that is pasted into an email, to social media or on a website.

See e.g., https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf

159. On information and belief, one or more components of the CarrierX System employs and provides a method for network-based recording and delivery of digital audio and digital video material wherein activating the generated code provides access to the stored digital audio and digital video material. *See e.g., Id.*

160. On information and belief, CarrierX directly infringes at least claim 1 of the '833 patent and is in violation of 35 U.S.C. § 271(a) by making, using, selling, importing, and/or offering to sell the CarrierX Products and services; and making, using, selling, selling access to, importing, offering for sale, and/or offering to sell access to the CarrierX System.

161. CarrierX's direct infringement has damaged Onstream and caused it to suffer and continue to suffer irreparable harm and damages.

PRAYER FOR RELIEF

Onstream respectfully requests this Court to enter judgment in Onstream's favor and against all defendants as follows:

A. Finding that defendants have infringed one or more claims of the '068 patent under 35 U.S.C. §§ 271(a);

B. Finding that defendants have infringed one or more claims of the '728 patent under 35 U.S.C. §§ 271(a);

C. Finding that defendants have infringed one or more claims of the '930 patent under 35 U.S.C. §§ 271(a);

D. Finding that defendants have infringed one or more claims of the '648 patent under 35 U.S.C. §§ 271(a);

E. Finding that defendants have infringed one or more claims of the '109 patent under 35 U.S.C. §§ 271(a);

F. Finding that defendants have infringed one or more claims of the '142 patent under 35 U.S.C. §§ 271(a);

G. Finding that defendants have infringed one or more claims of the '707 patent under 35 U.S.C. §§ 271(a);

H. Finding that defendants have infringed one or more claims of the '855 patent under 35 U.S.C. §§ 271(a);

I. Finding that defendants have infringed one or more claims of the '833 patent under 35 U.S.C. §§ 271(a);

J. Awarding Onstream damages under 35 U.S.C. § 284, or otherwise permitted by law, including supplemental damages for any continued post-verdict infringement;

K. Awarding Onstream pre-judgment and post-judgment interest on the damages award and costs;

L. Awarding cost of this action (including all disbursements) and attorney fees pursuant to 35 U.S.C. § 285, or as otherwise permitted by the law; and

M. Awarding such other costs and further relief that the Court determines to be just and equitable.

///

///

JURY DEMANDED

Pursuant to Federal Rule of Civil Procedure 38(b), Onstream requests a trial by jury on all issues so triable.

Dated: December 20, 2022

Respectfully submitted,

PERKOWSKI LEGAL, PC

DAIGNAULT IYER LLP

By: /s/ Peter Perkowski

Peter E. Perkowski

Attorneys for Plaintiff
ONSTREAM MEDIA CORPORATION