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10 Attorneys for Plaintiff  
11 ONSTREAM MEDIA CORPORATION

12  
13 **UNITED STATES DISTRICT COURT**  
**CENTRAL DISTRICT OF CALIFORNIA**

14 ONSTREAM MEDIA  
15 CORPORATION,

16 *Plaintiff,*

17 v.

18 CARRIERX, LLC,  
19 START MEETING, LLC, and  
FREE CONFERENCING  
20 CORPORATION,

21 *Defendants.*

Case No.: 2:22-cv-9245

**COMPLAINT FOR PATENT  
INFRINGEMENT**

*Jury Trial Demanded*

22 Plaintiff Onstream Media Corporation (“Onstream”) files this  
23 Complaint against Defendants CarrierX, LLC, Start Meeting, LLC, and Free  
24 Conferencing Corporation (individually and collectively, “CarrierX”) for  
25 infringement of United States Patent Nos. 9,161,068; 9,467,728; 10,038,930;  
26 10,200,648; 10,674,109; 10,694,142; 10,848,707; 10,951,855; and 11,128,833 (the  
27 “patents-in-suit”) attached as Exhibits 1-9, respectively, and alleges as  
28 follows:

1 **JURISDICTION**

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

5 **THE PARTIES**

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

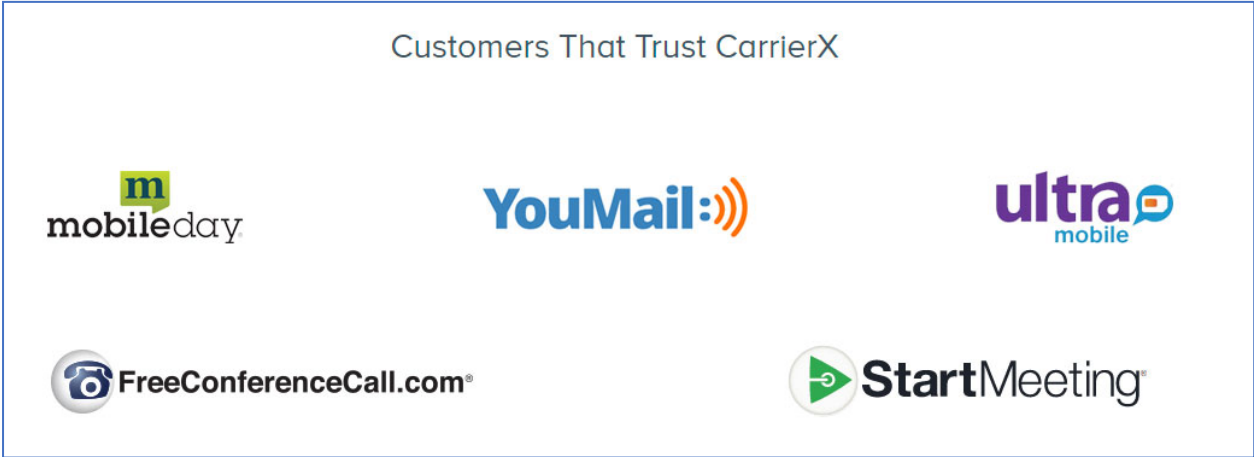
9 3. On information and belief, according to documents on file with  
10 the California Secretary of State, CarrierX is a limited liability company  
11 organized under the laws of the State of Delaware with its principal place of  
12 business at 4300 Pacific Coast Hwy, Long Beach, CA 90804.

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

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

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

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



8 See, e.g., <https://www.carrierx.com/>

9 **PERSONAL JURISDICTION AND VENUE**

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

14 9. This Court also has personal jurisdiction over defendants in  
15 accordance with due process and/or the California Long Arm Statue because  
16 they have committed and continue to commit acts of infringement giving rise  
17 to this action in the State of California in violation of at least 35 U.S.C.  
18 § 271(a). In particular, on information and belief, CarrierX has made, used,  
19 offered to sell and/or sold infringing products, services and/or systems in  
20 the State of California.

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

26 11. On information and belief, CarrierX has made, used, offered to  
27 sell and/or sold products and services, including the following specifically  
28

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

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

21

22 <sup>1</sup> See <https://www.carrierx.com/documentation/core-api>

23 <sup>2</sup> See <https://www.carrierx.com/documentation/conference-api#introduction>

24 <sup>3</sup> See <https://www.carrierx.com/documentation/conference-v2-api#introduction>

25 <sup>4</sup> See <https://www.startmeeting.com/>

26 <sup>5</sup> See <https://www.startmeeting.com/mobile-apps>

27 <sup>6</sup> See <https://www.startmeeting.com/web-conferencing>

28 <sup>7</sup> See <https://www.startmeeting.com/video-conferencing>

<sup>8</sup> See <https://www.freeconferencecall.com/video-conferencing>

<sup>9</sup> See <https://www.freeconferencecall.com/video-recording>

<sup>10</sup> See <https://www.freeconferencecall.com/apps>

<sup>11</sup> See <https://www.freeconferencecall.com/downloads>

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

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

19           15. Venue is proper pursuant to 28 U.S.C. §§ 1391(b), (c), (d) and/or  
20 1400(b), at least because each of CarrierX, Start Meeting, and Free  
21 Conferencing Corp. have their principal place of business in California and  
22 this judicial district and, therefore, reside in this judicial district.

### 23                                   **BACKGROUND FACTS**

#### 24                                   *United States Patent No. 9,161,068*

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

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

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

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

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

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

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

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

16 22. The '068 patent then states:

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

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

22 23. The '068 patent then also states:

23 Accordingly, there has been a long existing need for a  
24 system that improves the level of communication possible  
25 with respect to online business-related transactions. Further,  
26 there is a continuing need for an improved system and/or  
27 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.

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



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

12   ***United States Patent No. 9,467,728***

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

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

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

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

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

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

25   ***United States Patent No. 10,038,930***

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

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

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

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

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

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

10 ***United States Patent No. 10,200,648***

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

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

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

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

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

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

23 ***United States Patent No. 10,674,109***

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

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

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



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

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

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

8 ***United States Patent No. 10,694,142***

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

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

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

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

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

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

21 ***United States Patent No. 10,848,707***

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

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

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

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

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

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

6 ***United States Patent No. 10,951,855***

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

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

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

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

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

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

19 ***United States Patent No. 11,128,833***

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

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

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

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

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

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

4 **CLAIMS FOR RELIEF**

5 **Count I - Infringement of United States Patent No. 9,161,068**

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

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

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

18 **Cloud-Based Voice, Video and Messaging**

19 CarrierX is a scalable CPaaS and API provider with its own network, giving developers powerful tools to build  
20 enterprise-ready applications and services.

21 See e.g., <https://www.carrierx.com/>

22 **Video conferencing**

23 Simple HD video conferencing with a clean, intuitive  
24 interface.  
25


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

# Free Video Conferencing and Free Screen Sharing

Each account includes free online meetings packed with intuitive features:

- Host up to 1,000 video participants.
- Access switch presenter, remote control and drawing tools.
- Record audio-visual presentations for live broadcast.
- Chat privately or with all participants.

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



**Impressive Audio Quality**  
StartMeeting is the leader in audio, offering crystal-clear conferencing with every meeting.

**Intuitive HD Video**  
With just one click, you can catch every detail on your call with high definition video conferencing.

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>

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## System Requirements

<b>Operating System</b>	Windows® 7 and up Mac® OSX 10.10
<b>Bandwidth</b>	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
<b>Camera</b>	Video camera supported by OS, integrated or external
<b>Web Browser</b>	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.*

///

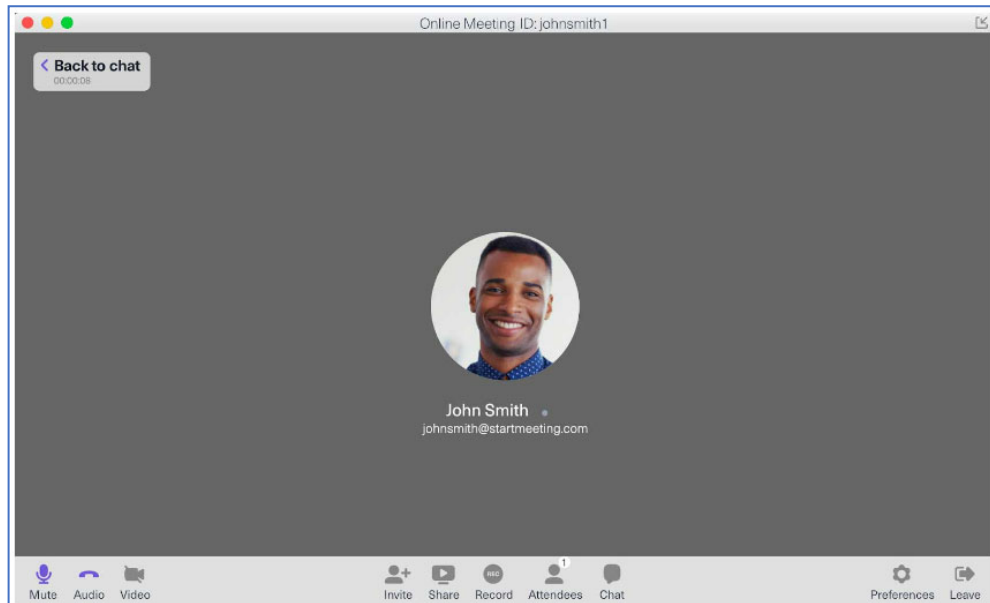
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**How to video conference:**

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>



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**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>

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

4 Minimal operating system requirements:

- 5 • OS:
  - 6 ◦ Windows® 7
  - 7 ◦ Mac® OSX 10.10
  - 8 ◦ iOS 10.0 (sharing phone's screen requires v11.0)
  - 9 ◦ 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

11 *See e.g.,* <https://www.startmeeting.com/support>

12 **System Requirements**

14 <b>Operating System</b>	Windows® 7 and up Mac® OSX 10.10
16 <b>Bandwidth</b>	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
18 <b>Camera</b>	Video camera supported by OS, integrated or external
20 <b>Web Browser</b>	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

25 *See e.g.,* <https://www.freeconferencecall.com/video-conferencing>

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

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

7 **How to record:**

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

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

17 To enable recording on your iOS device:

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


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

- 23 1. Open the StartMeeting app. (If you don't have it, [download it in the App Store](#).)  
24 2. Tap **Host** to start a meeting.  
25 3. Begin screen sharing and/or video conferencing.  
26 4. Open the iOS Control Center.  
27 5. Press and hold **Screen Recording** to show more options and tap **SM ScreenSharing**.  
28 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.

25 *See e.g.,* <https://www.startmeeting.com/host-instructions>

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**10 GB Storage**

Each account comes with 10 GB of expandable cloud storage so that team members can store audio conferences and video presentations.

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>

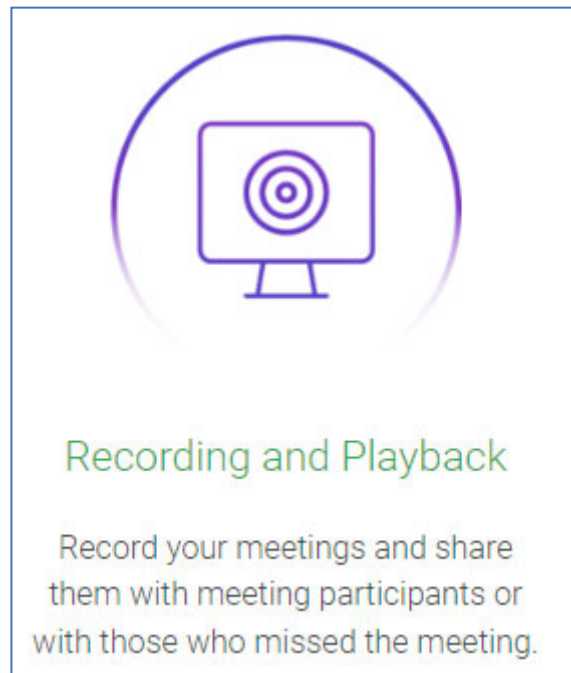
**Free Cloud Storage**

Just where are those recordings stored, anyway? Log in to your online account and head to your History & Recordings page. You'll find an archive of all your recordings and conference details.

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

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



14 *See e.g.,* <https://www.startmeeting.com/conference-features>

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

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**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

27 *See e.g.,* <https://www.startmeeting.com/enterprise>

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**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>

## Free Cloud Storage

Just where are those recordings stored, anyway? Log in to your online account and head to your History & Recordings page. You'll find an archive of all your recordings and conference details.

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>

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## 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/>

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

5 **How to video conference:**

- 6
- 7 1. Click **Camera** on the Meeting Dashboard.
  - 8 2. Choose to dial in over the telephone or through VoIP on your computer.
  - 9 3. Video is live once the Camera turns green.

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

11 **How to record:**

- 12
- 13 1. Launch the desktop application and click **Record**. Or, click **Host** and then **Record**. on the Meeting Dashboard. You can  
14 also use this feature to create a Studio presentation.
  - 15 2. Select recording options (audio, screen sharing, video) and Continue.
  - 16 3. Choose your audio preference and/or items to share.
  - 17 4. Recording will begin immediately. **Note:** Only one video feed will be recorded based on the active speaker.

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

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

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

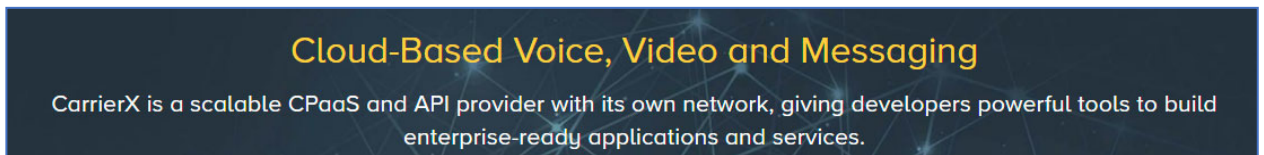
26 **Count II - Infringement of United States Patent No. 9,467,728**

27 88. Onstream repeats, realleges, and incorporates by reference, as if  
28 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

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

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



12 See e.g., <https://www.carrierx.com/>

A screenshot of the StartMeeting website. The title is "Video conferencing" in blue text. Below the title, in grey text, it says "Simple HD video conferencing with a clean, intuitive interface." The background is white with a light blue border.

### Video conferencing

Simple HD video conferencing with a clean, intuitive interface.

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

A screenshot of the FreeConferenceCall website. The title is "Free Video Conferencing and Free Screen Sharing" in white text on a dark blue background. Below the title, in white text, it says "Each account includes free online meetings packed with intuitive features:". Below this, there is a bulleted list of features: "Host up to 1,000 video participants.", "Access switch presenter, remote control and drawing tools.", "Record audio-visual presentations for live broadcast.", and "Chat privately or with all participants." The background of the screenshot is dark blue with a light blue gradient at the bottom.


## Free Video Conferencing and Free Screen Sharing

Each account includes free online meetings packed with intuitive features:

- Host up to 1,000 video participants.
- Access switch presenter, remote control and drawing tools.
- Record audio-visual presentations for live broadcast.
- Chat privately or with all participants.

28 See e.g., <https://www.freeconferencecall.com/>

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**Impressive Audio Quality**

StartMeeting is the leader in audio, offering crystal-clear conferencing with every meeting.

**Intuitive HD Video**


With just one click, you can catch every detail on your call with high definition video conferencing.

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>



**10 GB Storage**

Each account comes with 10 GB of expandable cloud storage so that team members can store audio conferences and video presentations.

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

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**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>

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<b>System Requirements</b>	
<b>Operating System</b>	Windows® 7 and up Mac® OSX 10.10
<b>Bandwidth</b>	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
<b>Camera</b>	Video camera supported by OS, integrated or external
<b>Web Browser</b>	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:

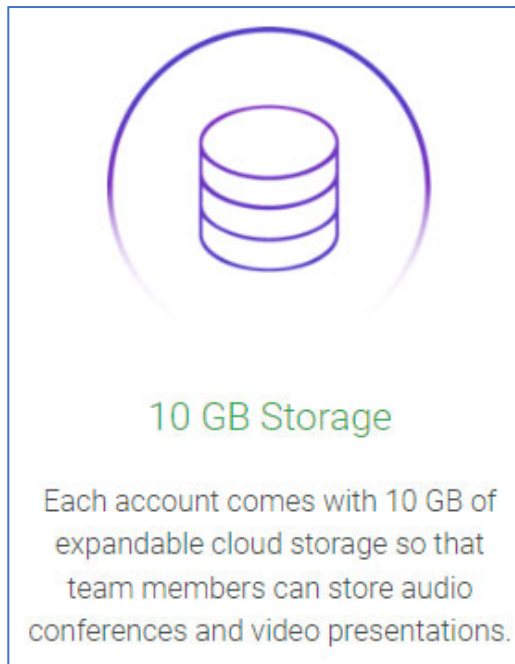
1. Open the StartMeeting app. (If you don't have it, download it in the App Store.)
2. Tap **Host** to start a meeting.
3. Begin screen sharing and/or video conferencing.
4. Open the iOS Control Center.
5. Press and hold **Screen Recording** to show more options and tap **SM ScreenSharing**.
6. Tap **Start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



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



18 *See e.g.*, <https://www.startmeeting.com/conference-features>

19 **How long are recordings available?**

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

22 *See e.g.*, <https://www.startmeeting.com/support>

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

24 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,  
25 you can either download your recordings and delete them from your profile to recycle your storage or upgrade your account for additional space.

26 *See e.g.*, <https://www.freeconferencecall.com/video-recording>

27 ///

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## Free Cloud Storage

Just where are those recordings stored, anyway? Log in to your online account and head to your History & Recordings page. You'll find an archive of all your recordings and conference details.

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.*

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>

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.

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

3 **Count III - Infringement of United States Patent No. 10,038,930**

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

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

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

18 **What devices are compatible with online meetings?**

19 Online meetings work on PCs, Macs®, Chromebooks™, iOS and Android™ phones and tablets. [Download apps](#)

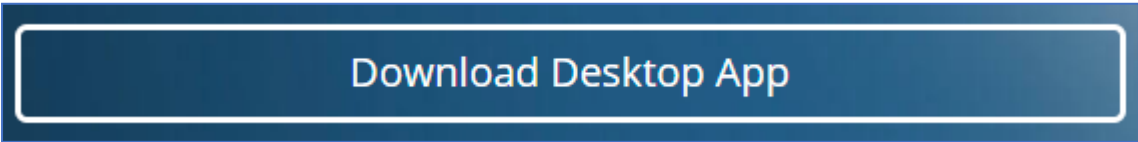
20 **Note:** Chromebooks do not require a download, so users can host or join meetings using Web Viewer. View  
21 recommended browsers and system requirements.

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

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

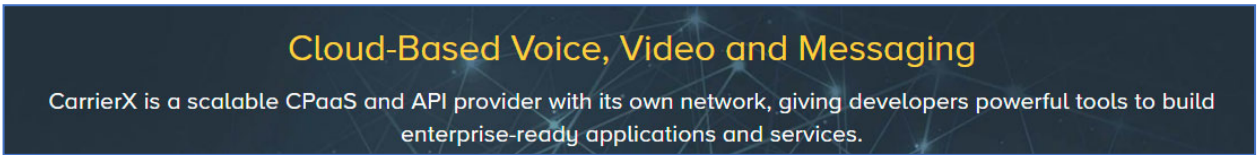
26 See e.g., [https://www.getapp.com/it-communications-  
27 software/a/startmeeting/](https://www.getapp.com/it-communications-software/a/startmeeting/)

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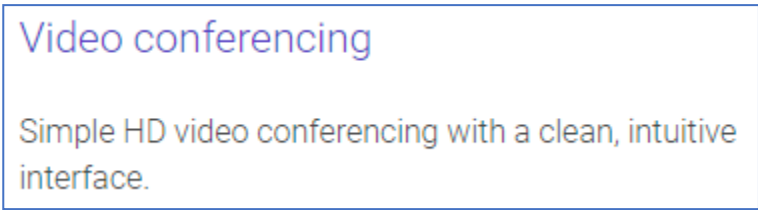


See e.g., <https://www.freeconferencecall.com/>

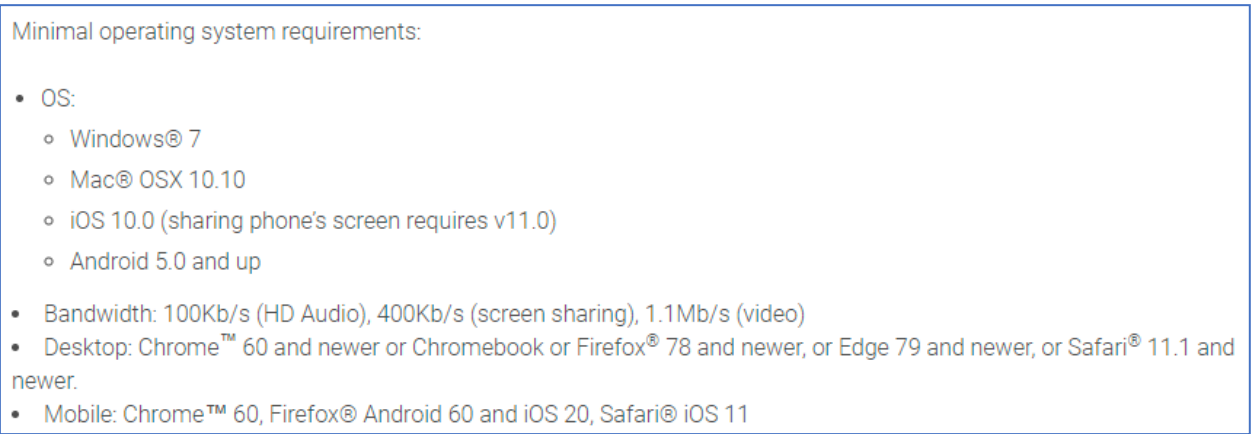
100. On information and belief, one or more components of the CarrierX System employs and provides a method comprising receiving, at the backend server, a media stream from a media input at the client device via the network, wherein the media stream is captured via the browser-independent recording application 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>

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**What devices are compatible with online meetings?**  
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**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](#).

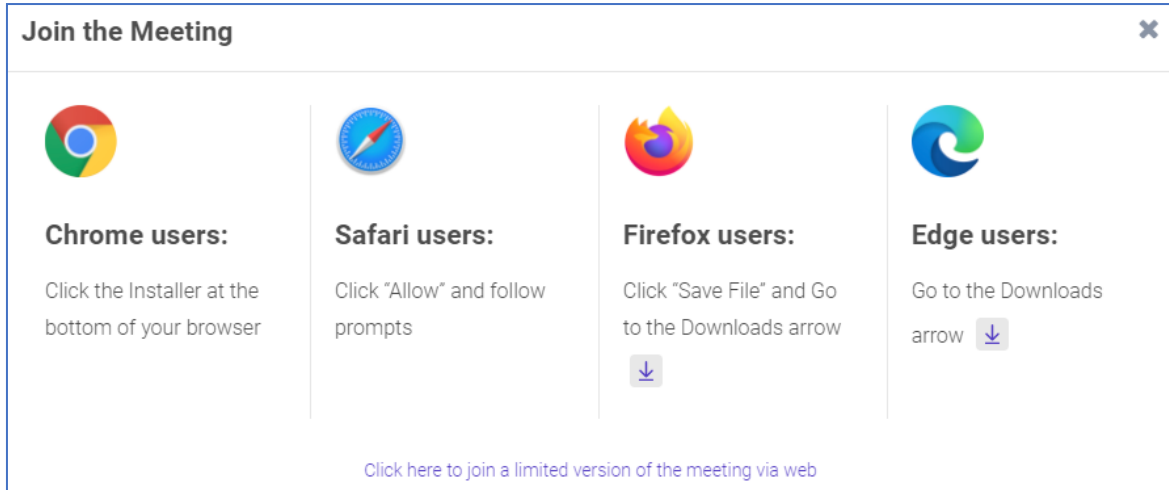
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**What if participants have the StartMeeting desktop application downloaded?**  
If participants have the StartMeeting desktop application installed, the system will automatically detect and launch the application.

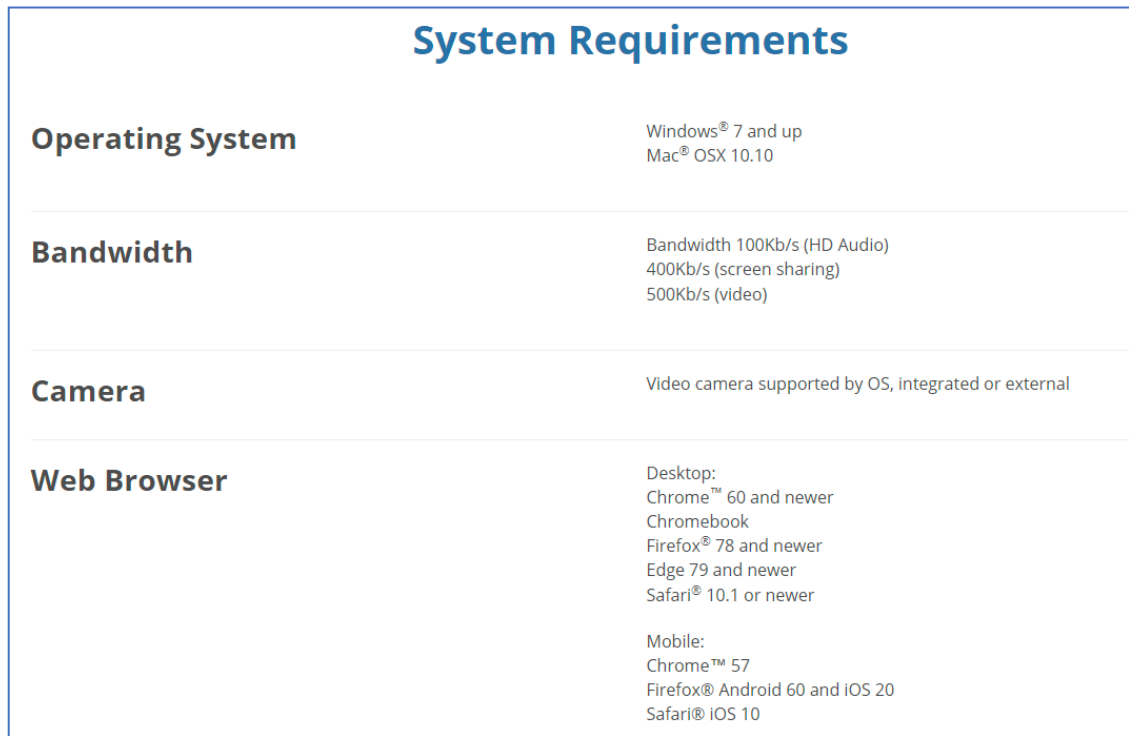
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**How do I join a video conference through my web browser?**  
When using Firefox, Chrome or Chromebook, click the camera that appears in the toolbar. A pop-up will appear requesting access to the camera and microphone. Allow access to start video 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.

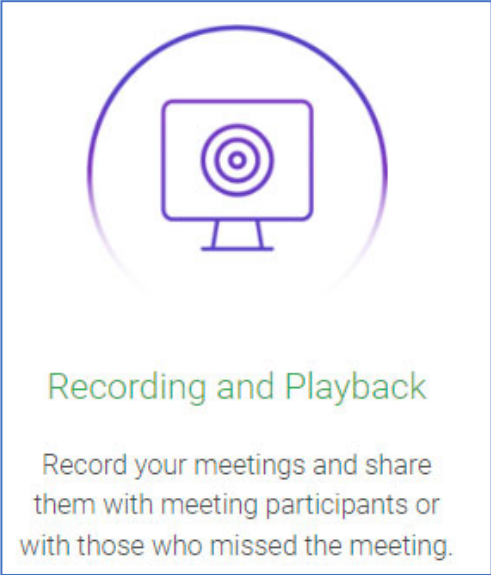


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**With StartMeeting, your business can take advantage of:**

- 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>

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**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>

## Free Cloud Storage

Just where are those recordings stored, anyway? Log in to your online account and head to your History & Recordings page. You'll find an archive of all your recordings and conference details.

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.

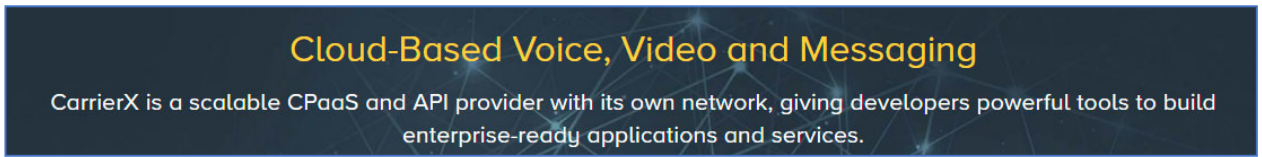
106. On information and belief, one or more components of the CarrierX System employs and provides an Internet-based recording method that performs all audio and video recording functions over an Internet browser connection established between a user front end and a host back end comprising recording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

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

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The screenshot shows a dark blue header for CarrierX. The main heading is "Cloud-Based Voice, Video and Messaging" in yellow. Below it, in white text, is the description: "CarrierX is a scalable CPaaS and API provider with its own network, giving developers powerful tools to build enterprise-ready applications and services."

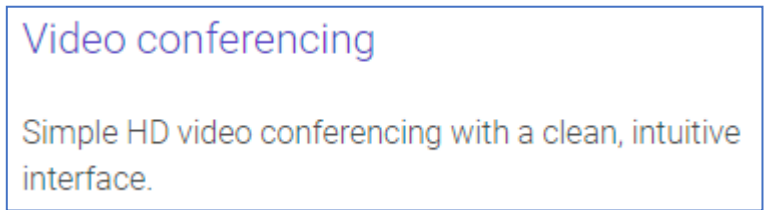
6 See e.g., <https://www.carrierx.com/>

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The screenshot shows a white box with a blue border. The title is "Video conferencing" in blue. The text below reads: "Simple HD video conferencing with a clean, intuitive interface."

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

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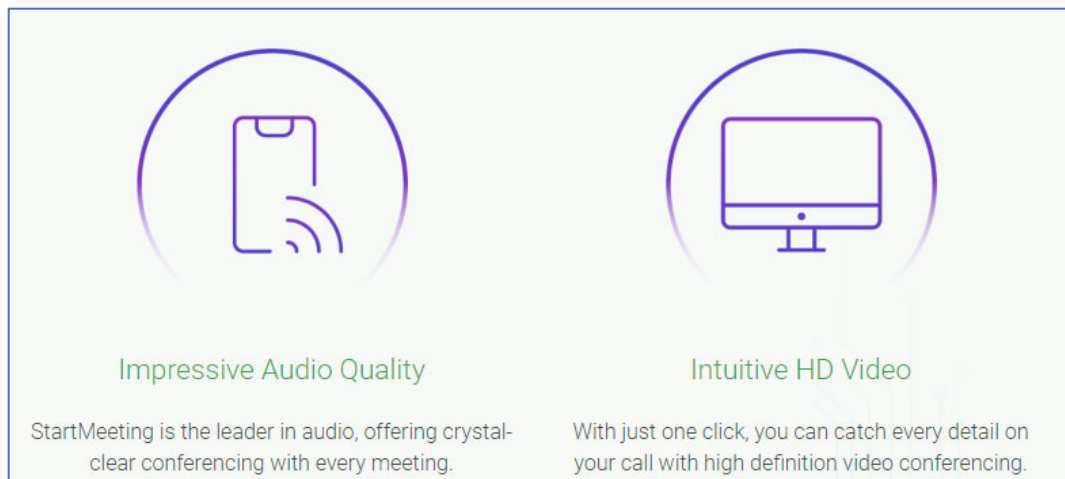
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The screenshot shows two feature cards for StartMeeting. The left card is titled "Impressive Audio Quality" and features an icon of a smartphone with a signal wave. The text below says: "StartMeeting is the leader in audio, offering crystal-clear conferencing with every meeting." The right card is titled "Intuitive HD Video" and features an icon of a computer monitor. The text below says: "With just one click, you can catch every detail on your call with high definition video conferencing."

20 See e.g., <https://www.startmeeting.com/>

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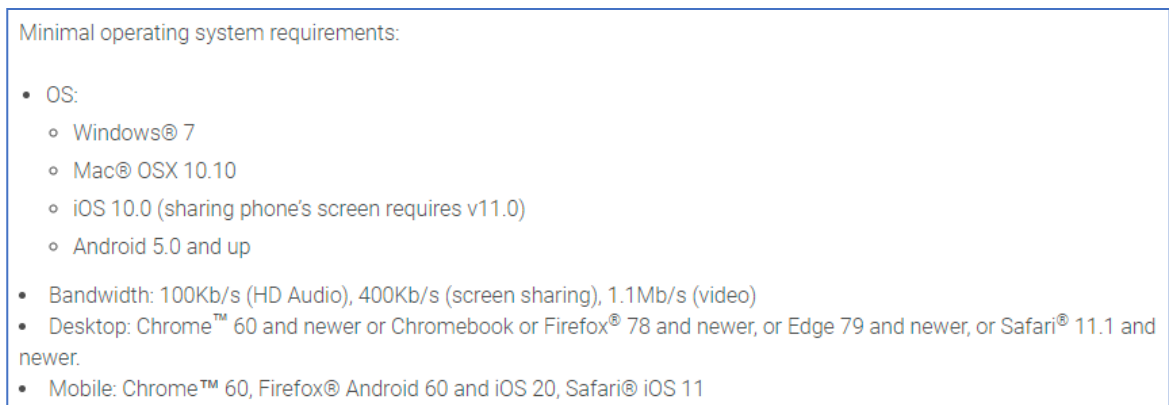
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The screenshot shows a white box with a blue border containing the text: "Minimal operating system requirements:". Below this is a bulleted list of requirements:

- 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

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

## Free Video Conferencing and Free Screen Sharing

Each account includes free online meetings packed with intuitive features:

- Host up to 1,000 video participants.
- Access switch presenter, remote control and drawing tools.
- Record audio-visual presentations for live broadcast.
- Chat privately or with all participants.

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.*

### 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>

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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>



10 GB Storage

Each account comes with 10 GB of expandable cloud storage so that team members can store audio conferences and video presentations.

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

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5. Press and hold **Screen Recording** to show more options and tap **SM ScreenSharing**.
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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.*

1 **How long are recordings available?**

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

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

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

8 See e.g., [https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-](https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf)  
9 [host-reference-guide.pdf](https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf)

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

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

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

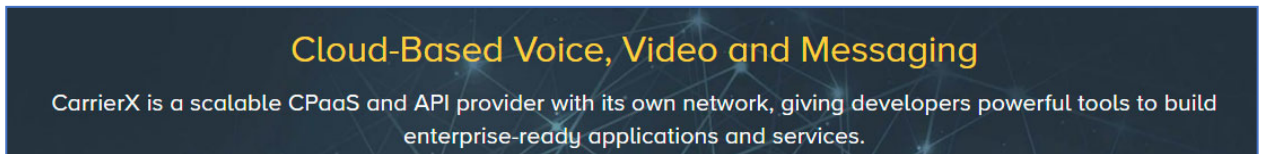
25 **Count V - Infringement of United States Patent No. 10,674,109**

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

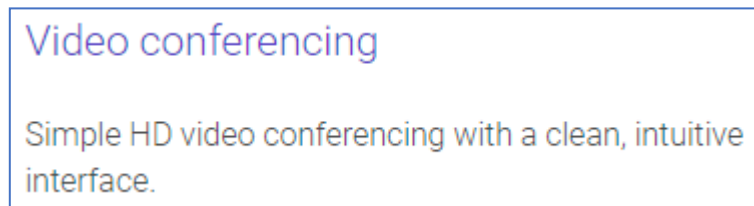
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1 113. On information and belief, CarrierX (or those acting on its behalf)  
2 makes, uses, sells, imports and/or offers to sell the CarrierX Products and  
3 Services; and makes, uses, sells, sells access to, imports, offers to sell and/or  
4 offers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

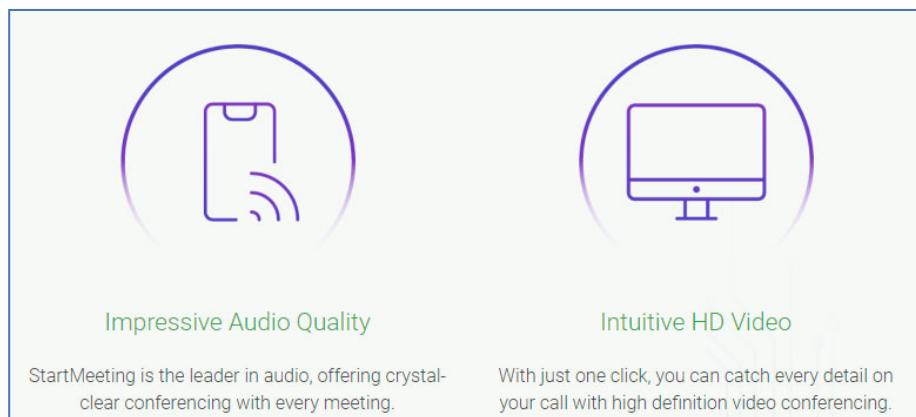
7 114. On information and belief, one or more components of the  
8 CarrierX System employs and provides a method comprising transmitting,  
9 via a network, (e.g., the Internet) a browser-independent recording  
10 application from a backend server to a client device, the application executing  
11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



15 See e.g., <https://www.carrierx.com/>



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



28 See e.g., <https://www.startmeeting.com/>

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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>

# Free Video Conferencing and Free Screen Sharing

Each account includes free online meetings packed with intuitive features:

- Host up to 1,000 video participants.
- Access switch presenter, remote control and drawing tools.
- Record audio-visual presentations for live broadcast.
- Chat privately or with all participants.

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

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<b>System Requirements</b>	
<b>Operating System</b>	Windows® 7 and up Mac® OSX 10.10
<b>Bandwidth</b>	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
<b>Camera</b>	Video camera supported by OS, integrated or external
<b>Web Browser</b>	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.*

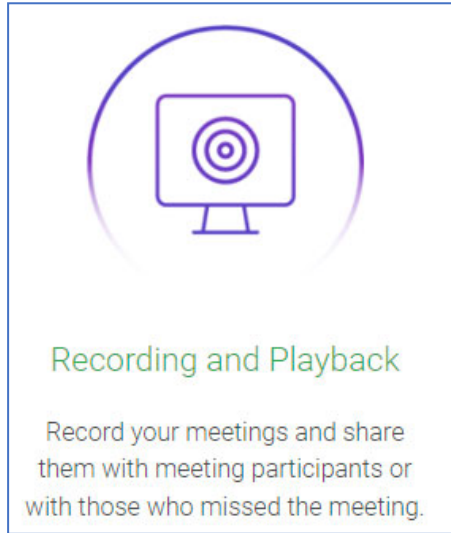
• Screen sharing tools allow users to share a specific app, window, or their entire screen with other participants, without requiring any software downloads.

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

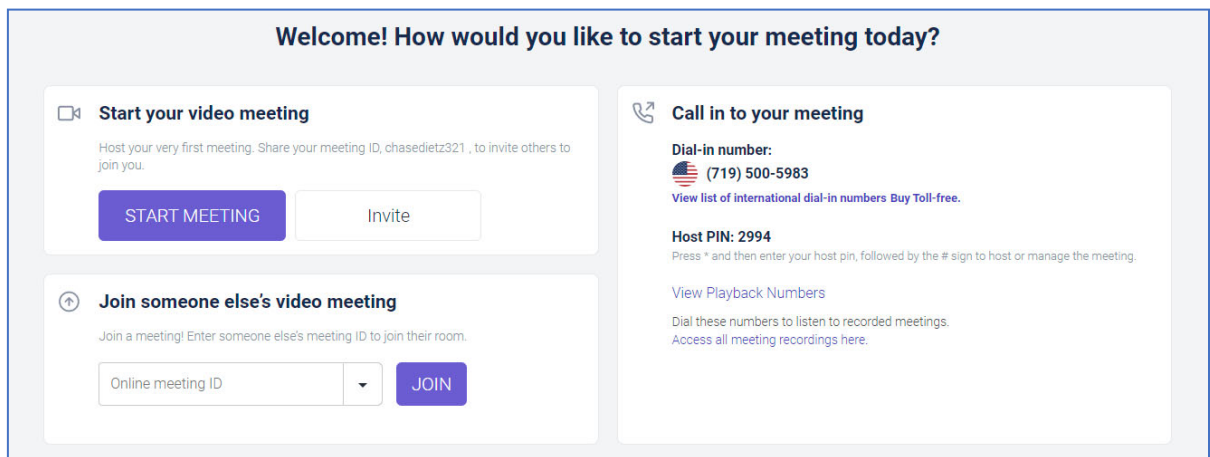
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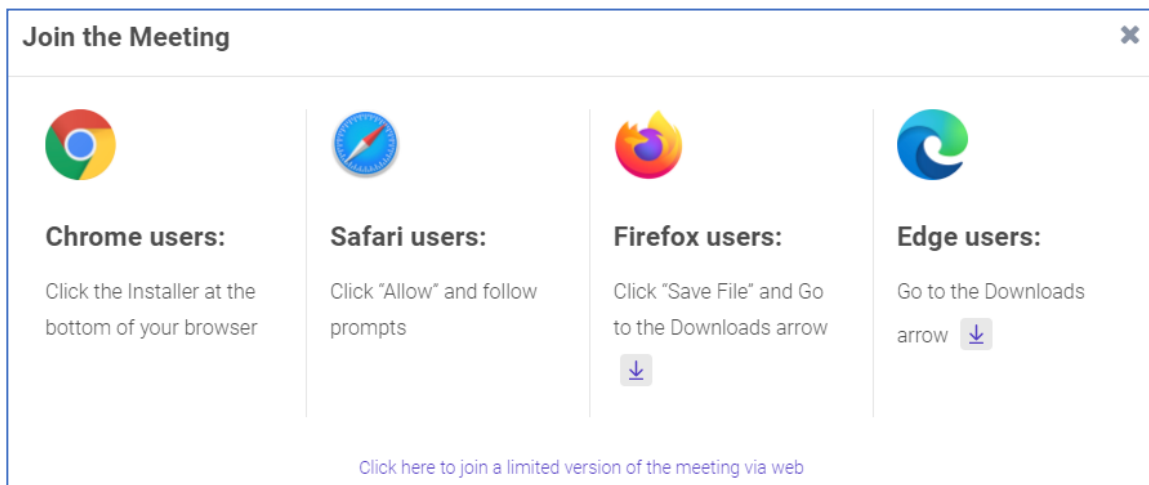
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See e.g., <https://www.startmeeting.com/conference-features>



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



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

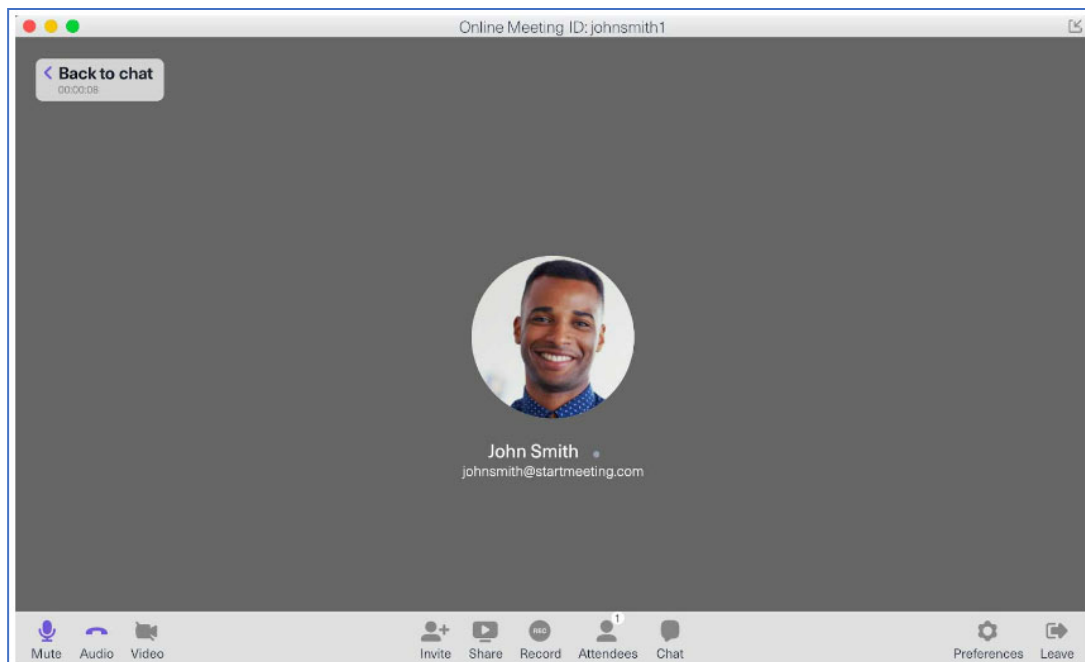


1 116. On information and belief, the CarrierX System is a distributed  
2 audio and video recording system for recording audio and video material  
3 over an Internet network connection established between a front end audio  
4 and video capturing device and a host back end server system. *See e.g.,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

5 **How to video conference:**

- 6
- 7 1. Click **Camera** on the Meeting Dashboard.
  - 8 2. Choose to dial in over the telephone or through VoIP on your computer.
  - 9 3. Video is live once the Camera turns green.

10 *See e.g.,* <https://www.startmeeting.com/host-instructions>



22 *See e.g.,* <https://www.startmeeting.com/user-guide>

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**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>



**10 GB Storage**

Each account comes with 10 GB of expandable cloud storage so that team members can store audio conferences and video presentations.

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>

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**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.

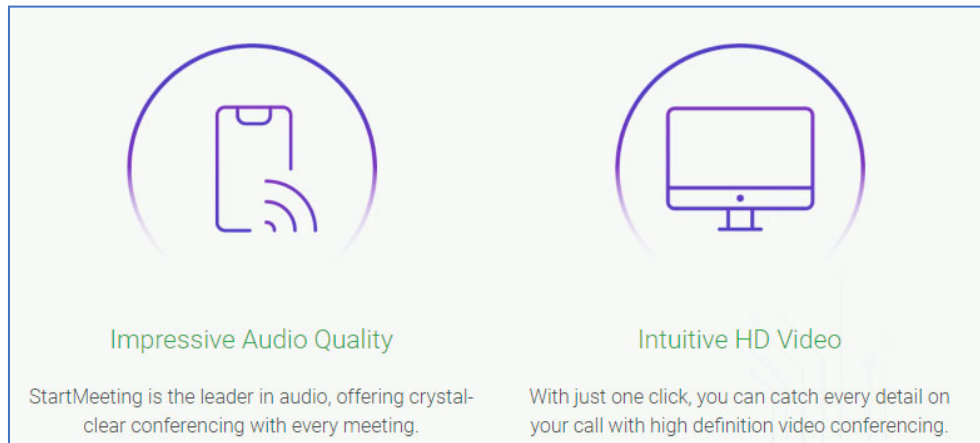
See e.g., <https://www.freeconferencecall.com/video-recording>

**Free Cloud Storage**  
Just where are those recordings stored, anyway? Log in to your online account and head to your History & Recordings page. You'll find an archive of all your recordings and conference details.

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.*

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

## 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?**

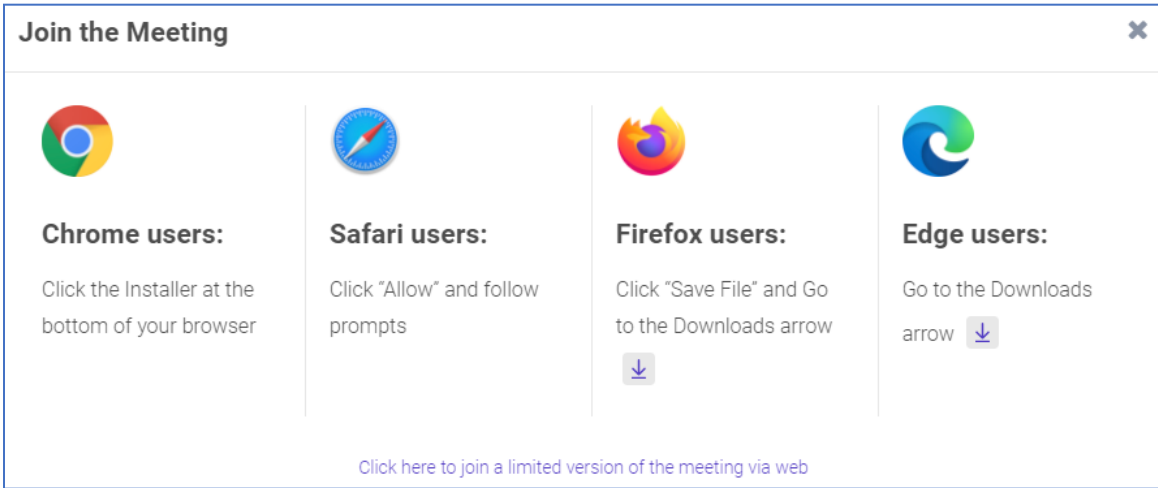
We recommend that participants join using Chrome™ 60 and newer or Chromebook or Firefox® 78 and newer. These browsers support VoIP audio, multi-feed video and viewing screen sharing. Edge 79 and newer and Safari® 11.1 and newer support viewing screen sharing only.

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

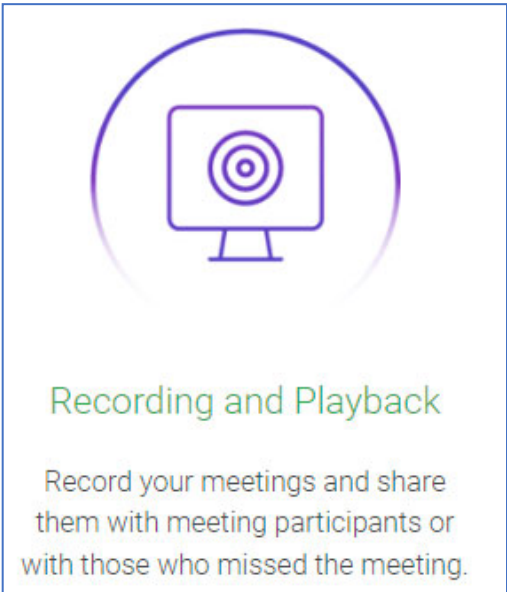
When using Firefox, Chrome or Chromebook, click the camera that appears in the toolbar. A pop-up will appear requesting access to the camera and microphone. Allow access to start video conferencing.

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

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



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

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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:

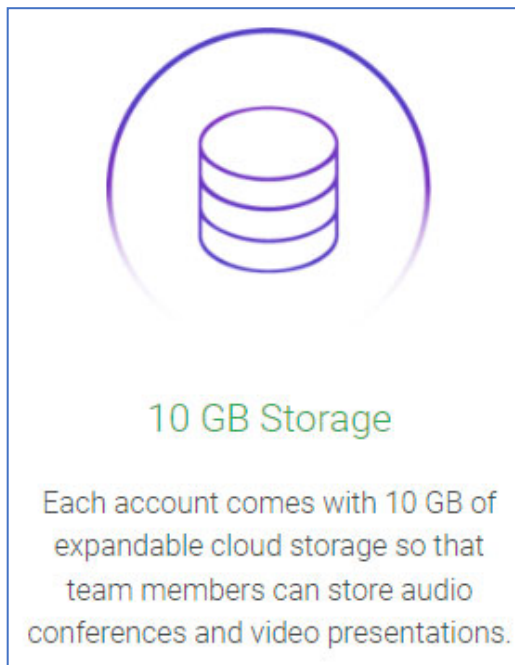
1. Add Screen Recording to the Control Center on your iOS device by tapping **Settings**, selecting **Control Center** then **Customize Controls**.
2. In the MORE CONTROLS list, tap + to add Screen Recording.
3. Swipe up to view the Control Center and see the Screen Recording icon.

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>



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<b>System Requirements</b>	
<b>Operating System</b>	Windows® 7 and up Mac® OSX 10.10
<b>Bandwidth</b>	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
<b>Camera</b>	Video camera supported by OS, integrated or external
<b>Web Browser</b>	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>

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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.

4 See e.g., [https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-](https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf)  
5 [host-reference-guide.pdf](https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf)

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

7 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.  
8

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

10 **Free Cloud Storage**

11  
12 Just where are those recordings stored, anyway? Log in to your online  
13 account and head to your History & Recordings page. You'll find an archive  
14 of all your recordings and conference details.

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

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

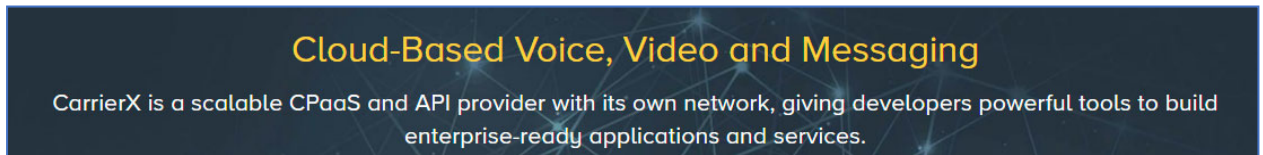
22 120. CarrierX's direct infringement has damaged Onstream and  
23 caused it to suffer and continue to suffer irreparable harm and damages as a  
24 result of CarrierX's infringement.

25 **Count VI - Infringement of United States Patent No. 10,694,142**

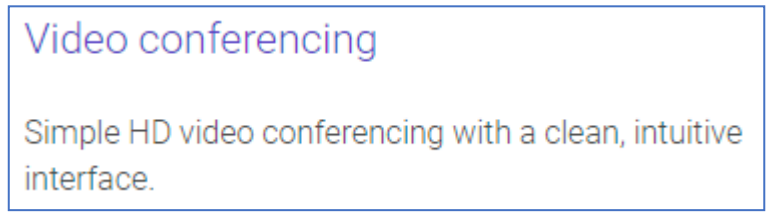
26 121. Onstream repeats, realleges, and incorporates by reference, as if  
27 fully set forth here, the allegations of the preceding paragraphs above.  
28

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

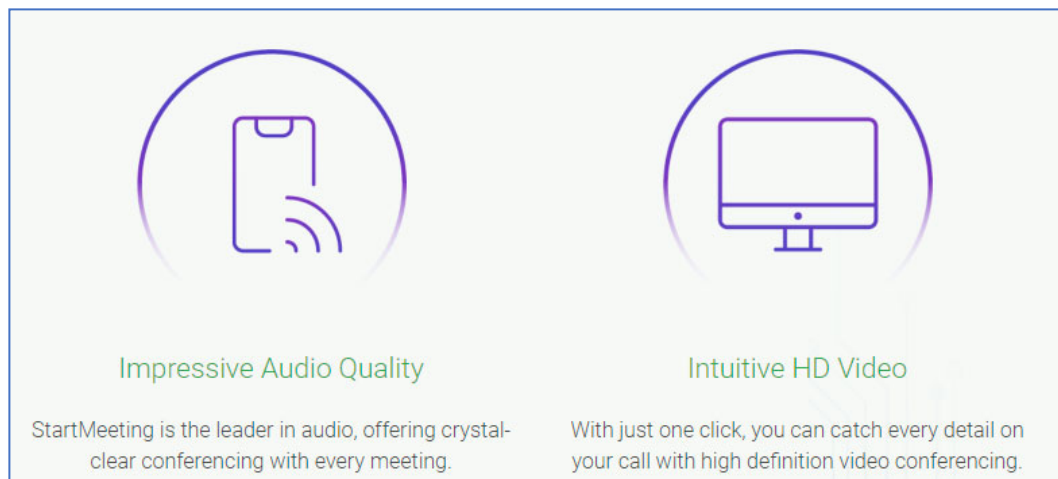
7 123. On information and belief, one or more components of the  
8 CarrierX System employs and provides a method for recording audio and  
9 video material over an Internet connection established between a user front  
10 end and a host back end.



14 See e.g., <https://www.carrierx.com/>



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



28 See e.g., <https://www.startmeeting.com/>

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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>

**Free Video Conferencing and Free Screen Sharing**

Each account includes free online meetings packed with intuitive features:

- Host up to 1,000 video participants.
- Access switch presenter, remote control and drawing tools.
- Record audio-visual presentations for live broadcast.
- Chat privately or with all participants.

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

<b>System Requirements</b>	
<b>Operating System</b>	Windows® 7 and up Mac® OSX 10.10
<b>Bandwidth</b>	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
<b>Camera</b>	Video camera supported by OS, integrated or external
<b>Web Browser</b>	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

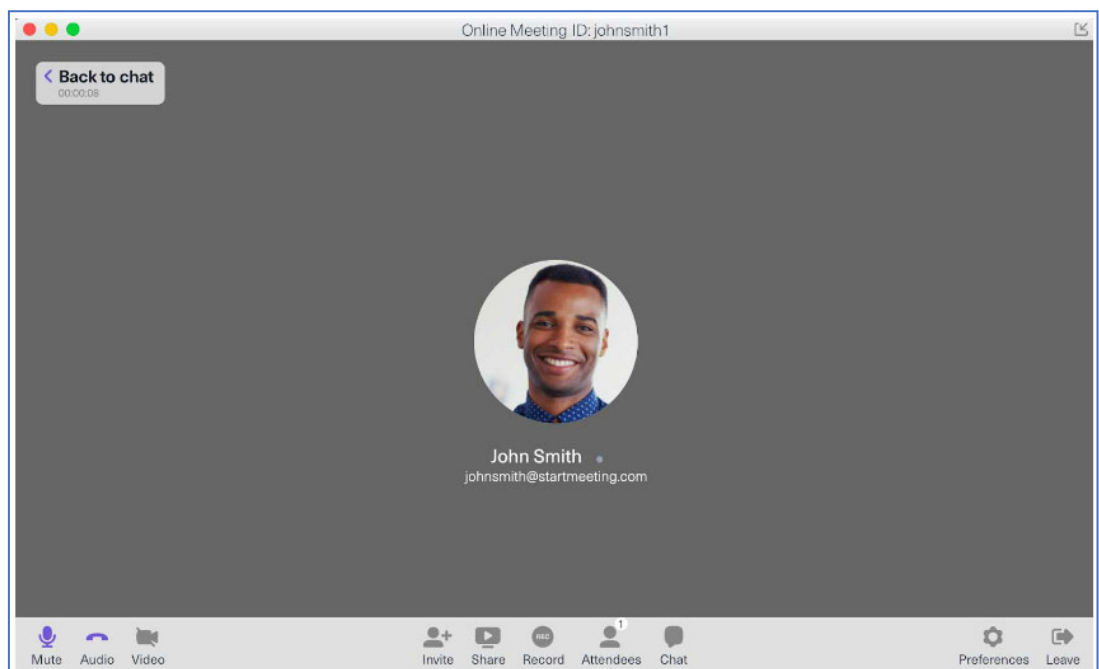
See e.g., <https://www.freeconferencecall.com/video-conferencing>

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

### 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.

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



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

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**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>

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**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.*

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**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>

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.*

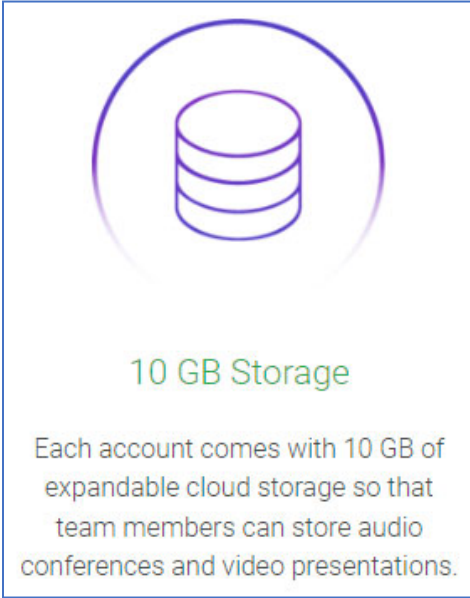
**With StartMeeting, your business can take advantage of:**

- 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>

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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>

**Free Cloud Storage**

Just where are those recordings stored, anyway? Log in to your online account and head to your History & Recordings page. You'll find an archive of all your recordings and conference details.

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

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

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

5 **Count VII - Infringement of United States Patent No. 10,848,707**

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

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

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

25 **Cloud-Based Voice, Video and Messaging**

26 CarrierX is a scalable CPaaS and API provider with its own network, giving developers powerful tools to build  
27 enterprise-ready applications and services.

28 See e.g., <https://www.carrierx.com/>

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## Video conferencing

Simple HD video conferencing with a clean, intuitive interface.

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

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>



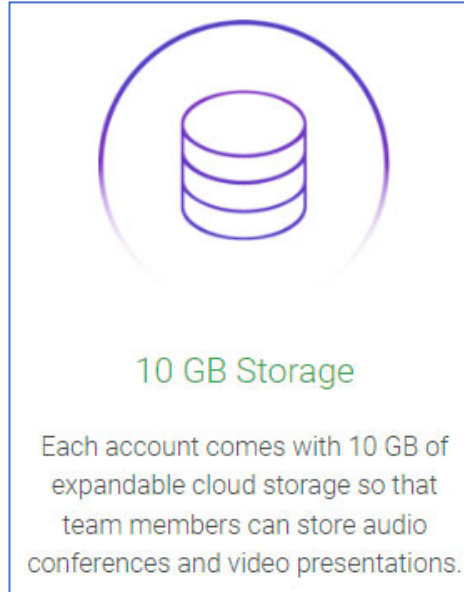
### Recording and Playback

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>

**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>

## Free Video Conferencing and Free Screen Sharing

Each account includes free online meetings packed with intuitive features:

- Host up to 1,000 video participants.
- Access switch presenter, remote control and drawing tools.
- Record audio-visual presentations for live broadcast.
- Chat privately or with all participants.

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

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<b>System Requirements</b>	
<b>Operating System</b>	Windows® 7 and up Mac® OSX 10.10
<b>Bandwidth</b>	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
<b>Camera</b>	Video camera supported by OS, integrated or external
<b>Web Browser</b>	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>

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

4 See e.g., [https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-](https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf)  
5 [host-reference-guide.pdf](https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf)

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

7 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,  
8 you can either download your recordings and delete them from your profile to recycle your storage or upgrade your account for additional space.

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

10 **Free Cloud Storage**

11 Just where are those recordings stored, anyway? Log in to your online  
12 account and head to your History & Recordings page. You'll find an archive  
13 of all your recordings and conference details.  
14

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

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

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

23 See e.g., [https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-](https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf)  
24 [host-reference-guide.pdf](https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf)

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

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

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

10 **How long are recordings available?**

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

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

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

17 See e.g., [https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-](https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf)  
18 [host-reference-guide.pdf](https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf)

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

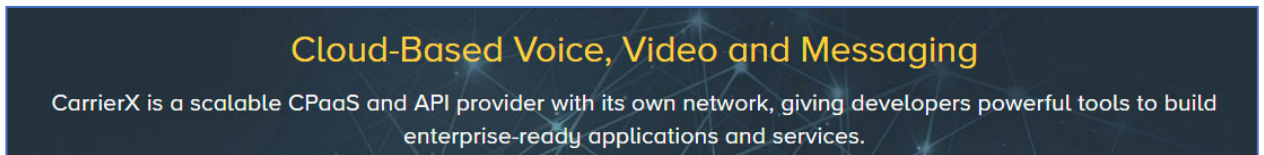
24 137. CarrierX's direct infringement has damaged Onstream and  
25 caused it to suffer and continue to suffer irreparable harm and damages.

26 **Count VIII - Infringement of United States Patent No. 10,951,855**

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

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

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

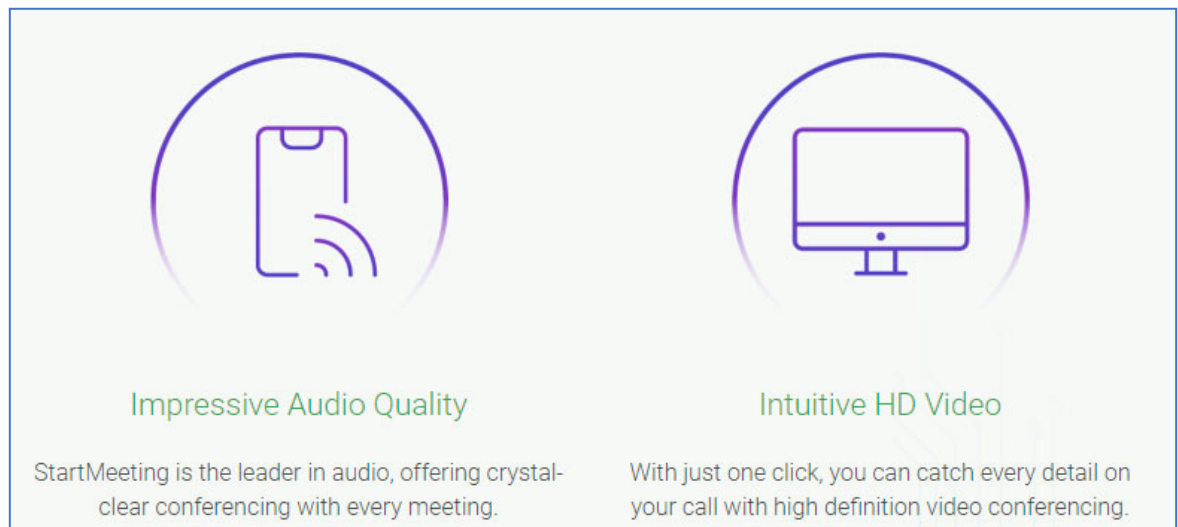


13 See e.g., <https://www.carrierx.com/>

14 **Video conferencing**

15 Simple HD video conferencing with a clean, intuitive  
16 interface.

17  
18 See e.g., <https://www.startmeeting.com/conference-features>



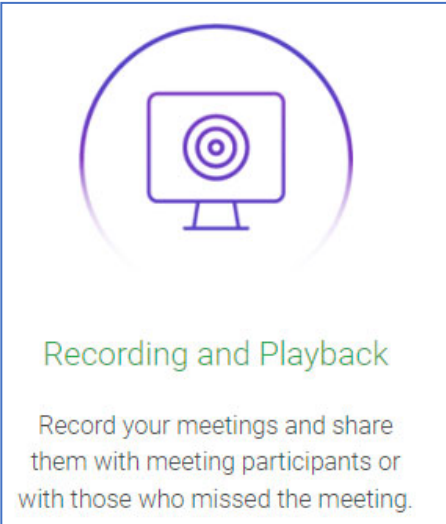
See e.g., <https://www.startmeeting.com/>

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**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.

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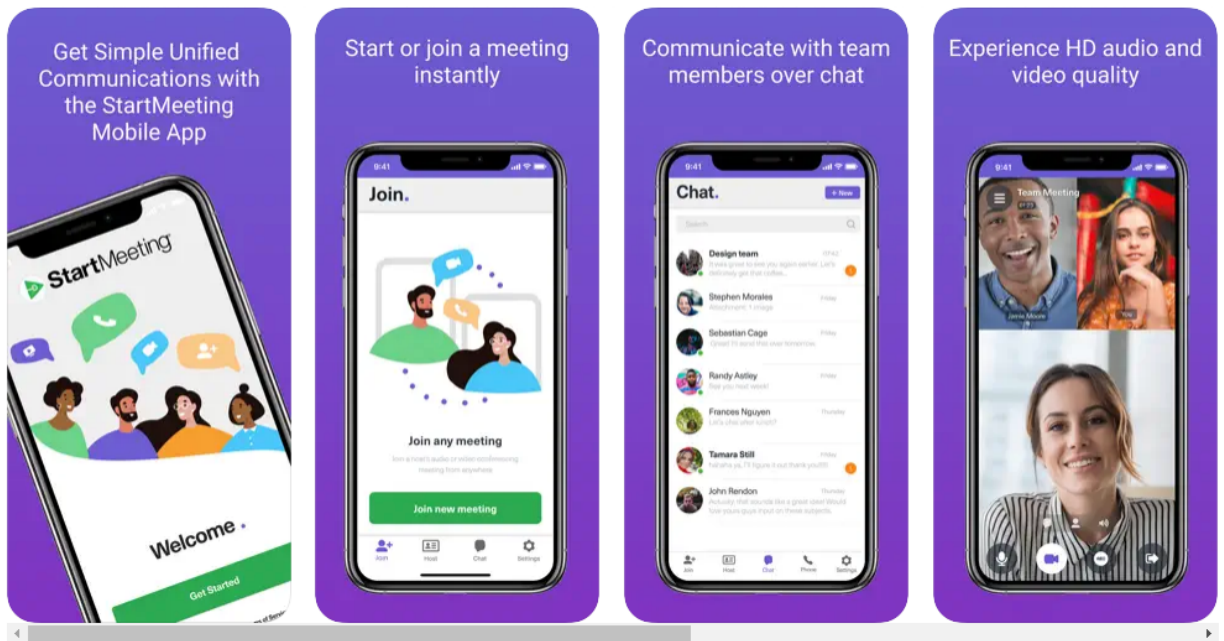
# Start Meeting

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>

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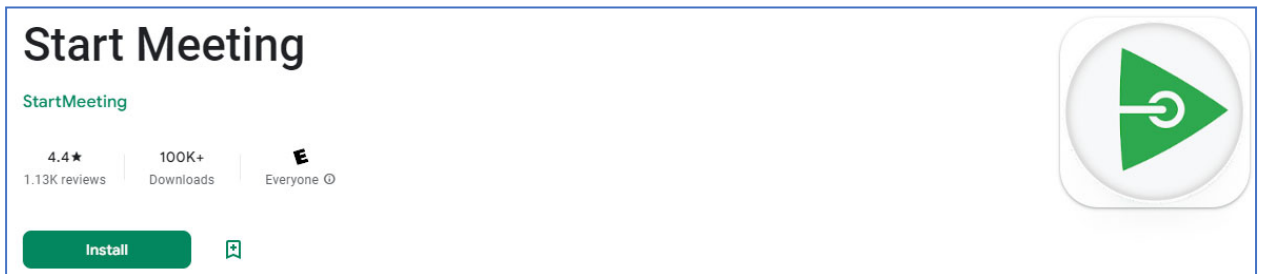
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See e.g., <https://apps.apple.com/us/app/start-meeting/id508871606>

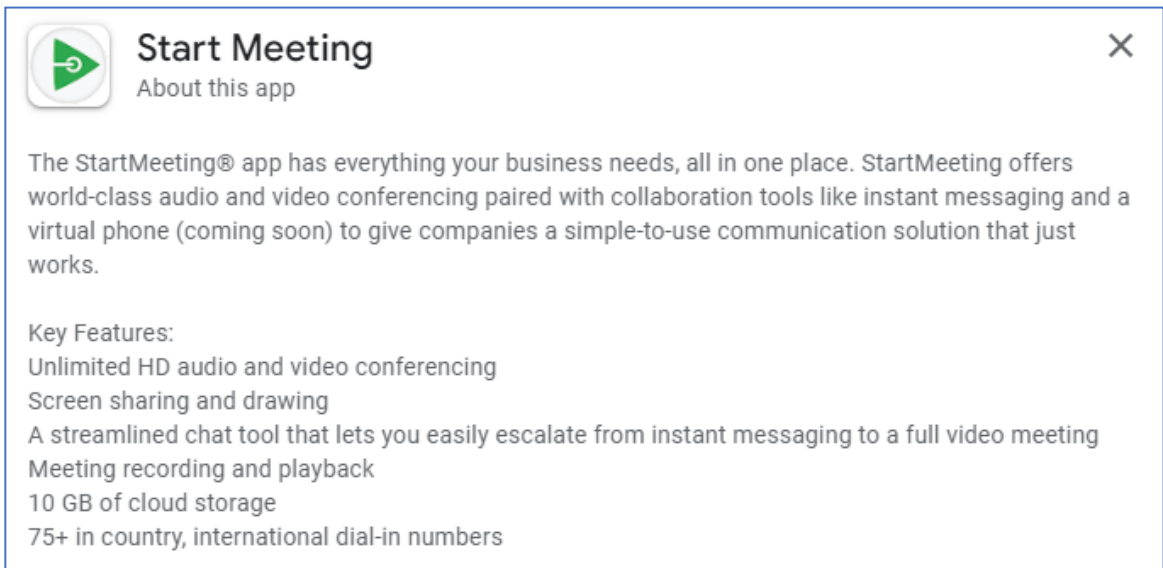


See e.g., [https://play.google.com/store/apps/details?id=com.startmeeting&hl=en\\_US&gl=US](https://play.google.com/store/apps/details?id=com.startmeeting&hl=en_US&gl=US)

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**Start Meeting** ✕  
About this app

The StartMeeting® app has everything your business needs, all in one place. StartMeeting offers world-class audio and video conferencing paired with collaboration tools like instant messaging and a virtual phone (coming soon) to give companies a simple-to-use communication solution that just works.

**Key Features:**  
Unlimited HD audio and video conferencing  
Screen sharing and drawing  
A streamlined chat tool that lets you easily escalate from instant messaging to a full video meeting  
Meeting recording and playback  
10 GB of cloud storage  
75+ in country, international dial-in numbers


See e.g.,

[https://play.google.com/store/apps/details?id=com.startmeeting&hl=en\\_US&gl=US](https://play.google.com/store/apps/details?id=com.startmeeting&hl=en_US&gl=US)



**We Go Where You Go with Conferencing Apps**

FreeConferenceCall.com blends seamlessly into your life. Download the mobile app and get our free phone conference software. Collaboration is just a tap away.

 Download on the App Store  GET IT ON Google Play


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.

**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>

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**10 GB Storage**

Each account comes with 10 GB of expandable cloud storage so that team members can store audio conferences and video presentations.

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>

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>

**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>

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**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>

**Free Cloud Storage**

Just where are those recordings stored, anyway? Log in to your online account and head to your History & Recordings page. You'll find an archive of all your recordings and conference details.

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.

**How to video conference:**

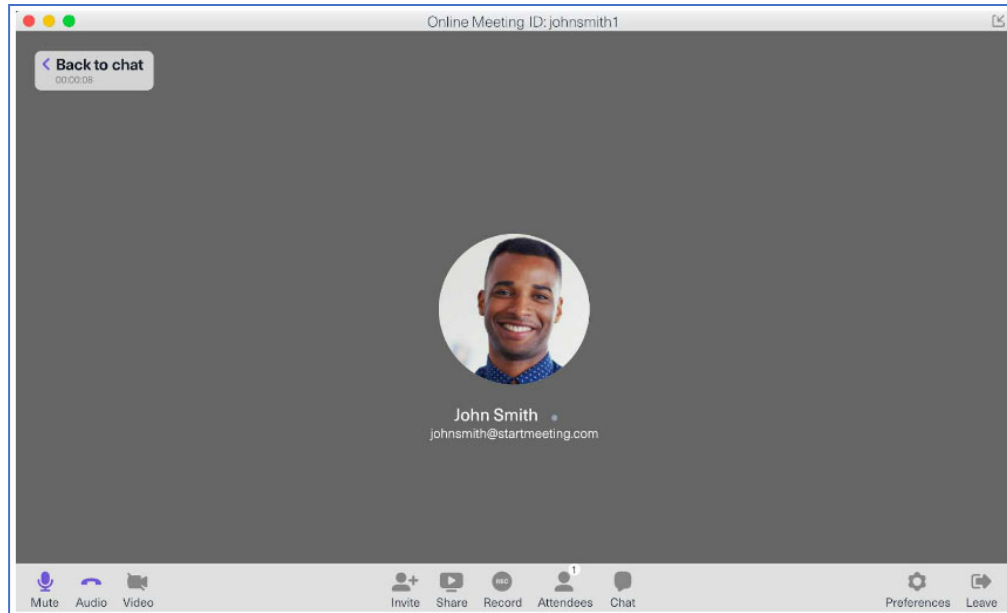
1. Click **Camera** on the Meeting Dashboard.
2. Choose to dial in over the telephone or through VoIP on your computer.
3. Video is live once the Camera turns green.

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

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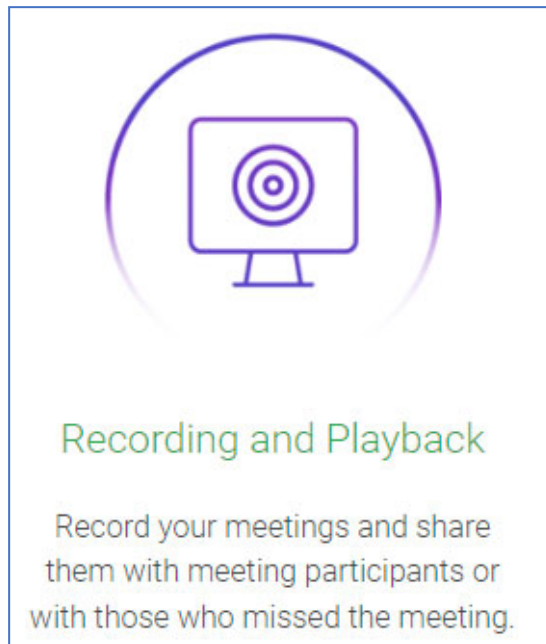
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See e.g., <https://www.startmeeting.com/user-guide>

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>

## Free Cloud Storage

Just where are those recordings stored, anyway? Log in to your online account and head to your History & Recordings page. You'll find an archive of all your recordings and conference details.

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

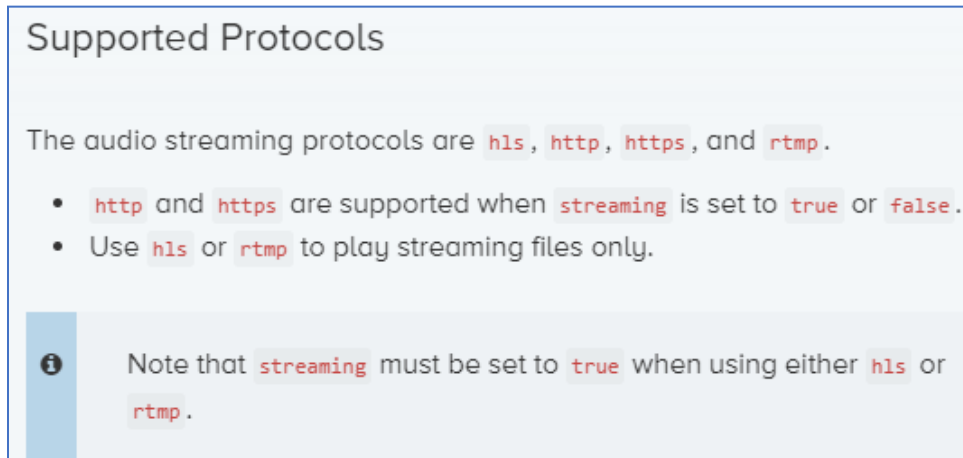
145. On information and belief, one or more components of the CarrierX System comprise a secure distributed digital audio and digital video recording system wherein the digital audio and digital video material is not stored as a complete file on the mobile front end digital audio and digital video capturing 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.*

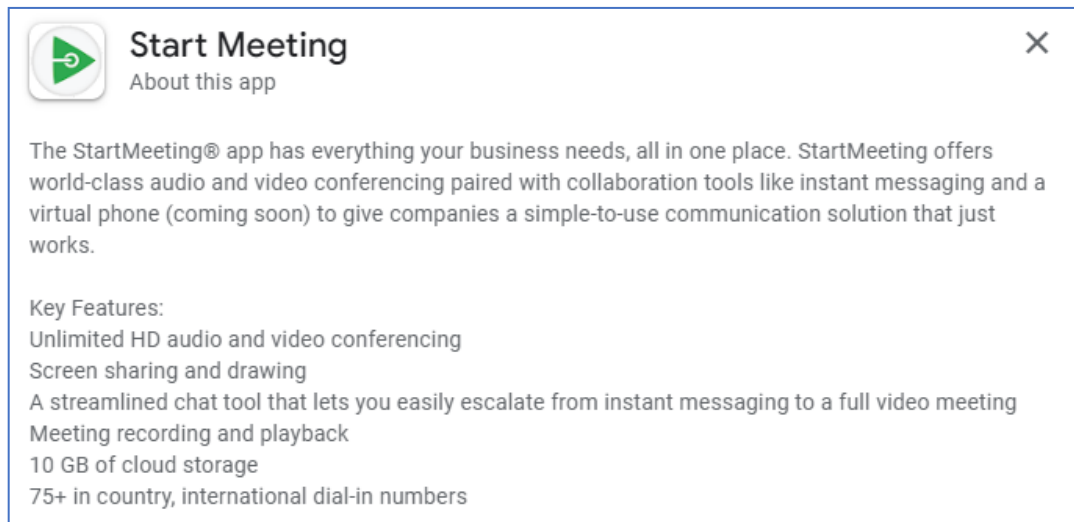
147. On information and belief, one or more components of the CarrierX System comprise a secure distributed digital audio and digital video recording system wherein the application is capable of securely streaming the digital audio and digital video material without requiring local installation and concurrent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



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



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



21 See e.g.,  
22 [https://play.google.com/store/apps/details?id=com.startmeeting&hl=en\\_US](https://play.google.com/store/apps/details?id=com.startmeeting&hl=en_US&gl=US)  
23 [S&gl=US](https://play.google.com/store/apps/details?id=com.startmeeting&hl=en_US&gl=US)

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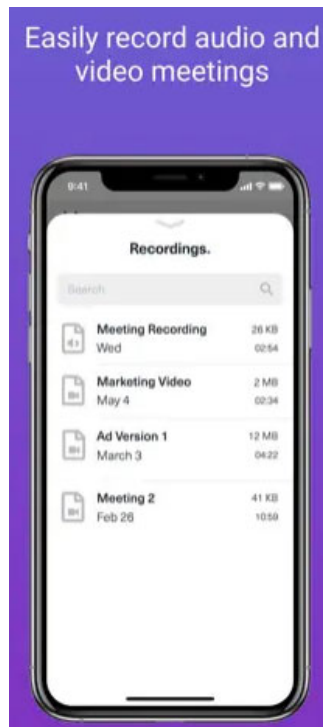
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1 It's incredibly easy to get started. Simply download the app, create an account, and you're ready to  
2 host your first meeting. Set your meeting time and share your credentials with your participants and  
3 you're good to go. We built StartMeeting with the end user in mind so it is incredibly simple to use,  
4 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.

5 *See e.g.,*

6 [https://play.google.com/store/apps/details?id=com.startmeeting&hl=en\\_US](https://play.google.com/store/apps/details?id=com.startmeeting&hl=en_US&gl=US)  
7 [S&gl=US](https://play.google.com/store/apps/details?id=com.startmeeting&hl=en_US&gl=US)

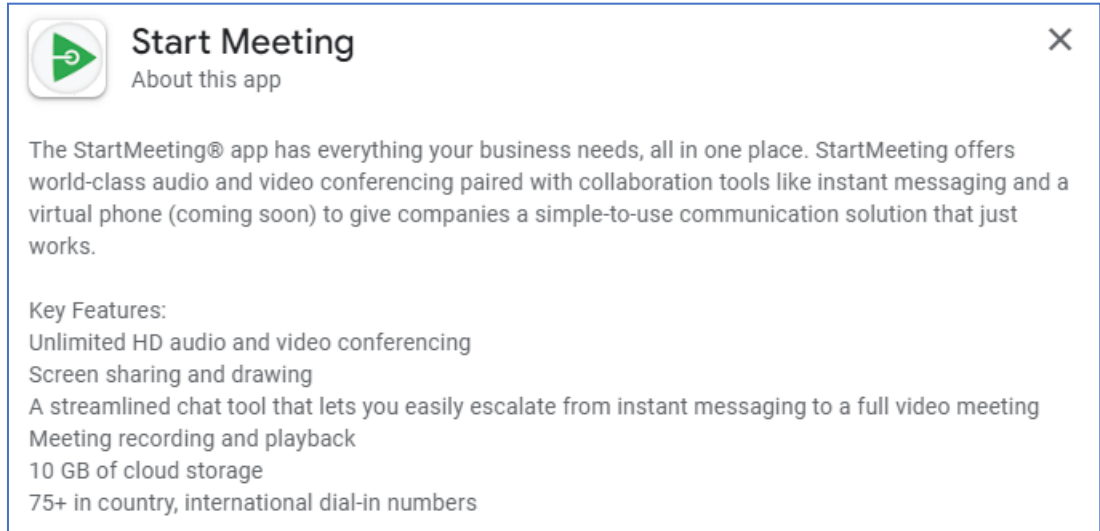
8 148. On information and belief, one or more components of the  
9 CarrierX System comprise a secure distributed digital audio and digital video  
10 recording system wherein at least one host back end application server  
11 records the digital audio and digital video material securely streamed from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



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

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10 *See e.g.,*

11 [https://play.google.com/store/apps/details?id=com.startmeeting&hl=en U](https://play.google.com/store/apps/details?id=com.startmeeting&hl=en_US&gl=US)  
12 [S&gl=US](https://play.google.com/store/apps/details?id=com.startmeeting&hl=en_US&gl=US)

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

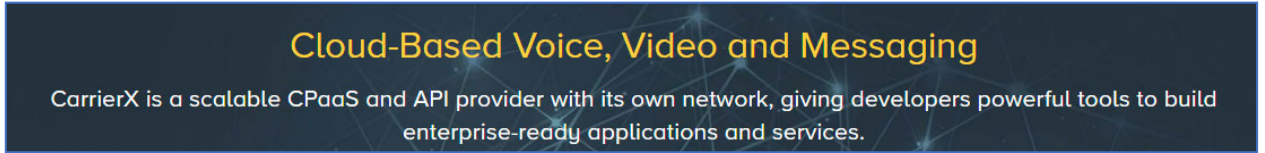
18 150. CarrierX's direct infringement has damaged Onstream and  
19 caused it to suffer and continue to suffer irreparable harm and damages.

20 **Count IX - Infringement of United States Patent No. 11,128,833**

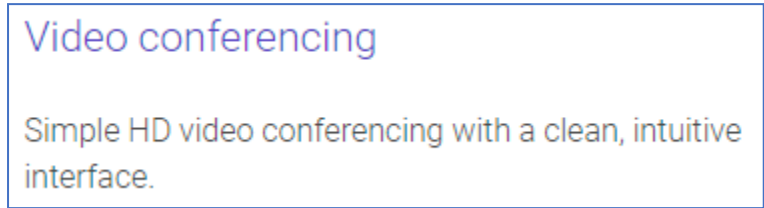
21 151. Onstream repeats, realleges, and incorporates by reference, as if  
22 fully set forth here, the allegations of the preceding paragraphs above.

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

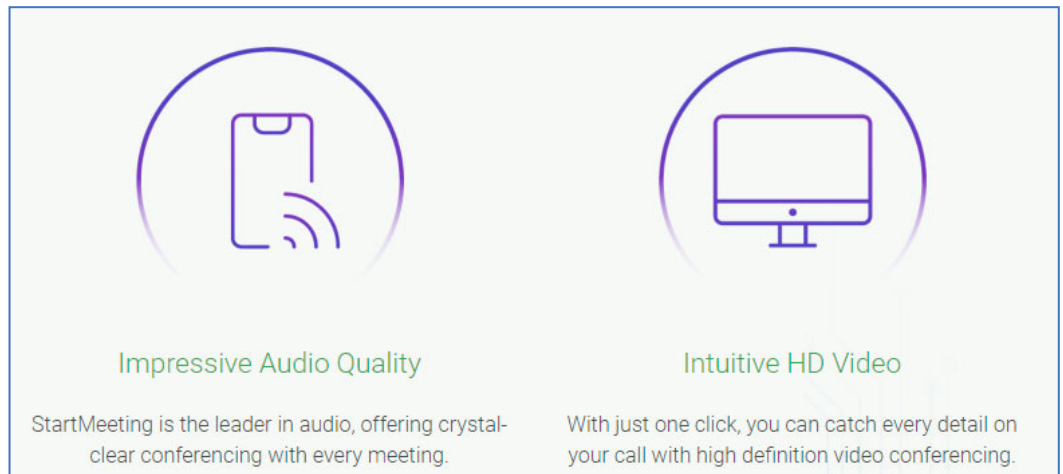
1 153. On information and belief, one or more components of the  
2 CarrierX System employs and provides a method for network-based  
3 recording and delivery of digital audio and digital video material.



7 See e.g., <https://www.carrierx.com/>



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



21 See e.g., <https://www.startmeeting.com/>

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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>

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**Free Video Conferencing and Free Screen Sharing**

Each account includes free online meetings packed with intuitive features:

- Host up to 1,000 video participants.
- Access switch presenter, remote control and drawing tools.
- Record audio-visual presentations for live broadcast.
- Chat privately or with all participants.

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

**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>

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.*

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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>

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# 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/>

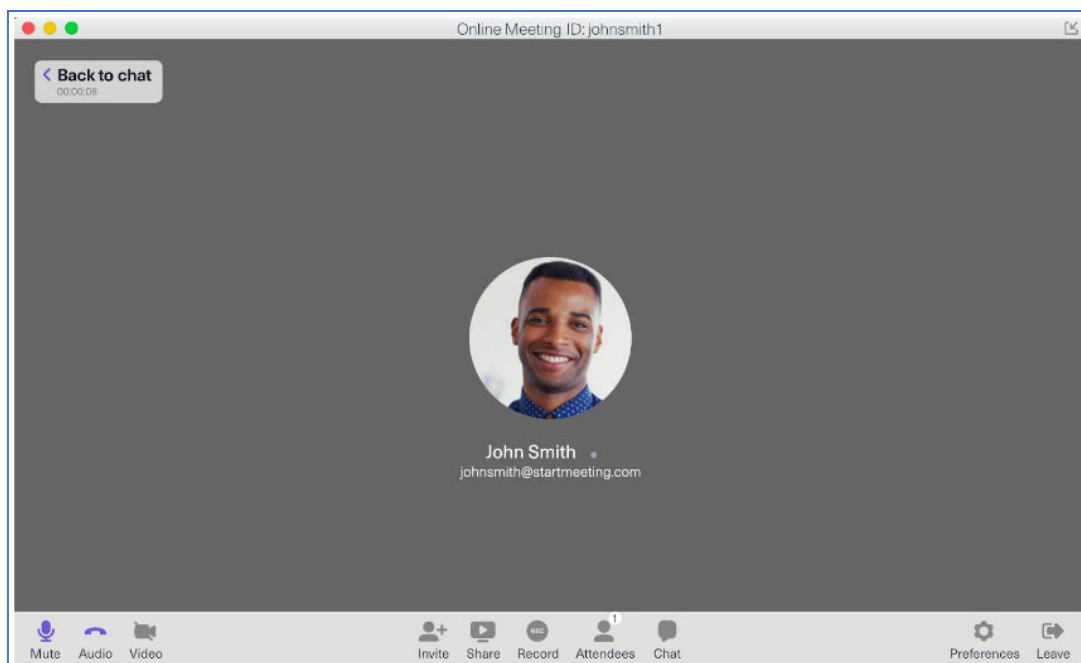
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System Requirements	
<b>Operating System</b>	Windows® 7 and up Mac® OSX 10.10
<b>Bandwidth</b>	Bandwidth 100Kb/s (HD Audio) 400Kb/s (screen sharing) 500Kb/s (video)
<b>Camera</b>	Video camera supported by OS, integrated or external
<b>Web Browser</b>	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

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

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

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

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**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?**

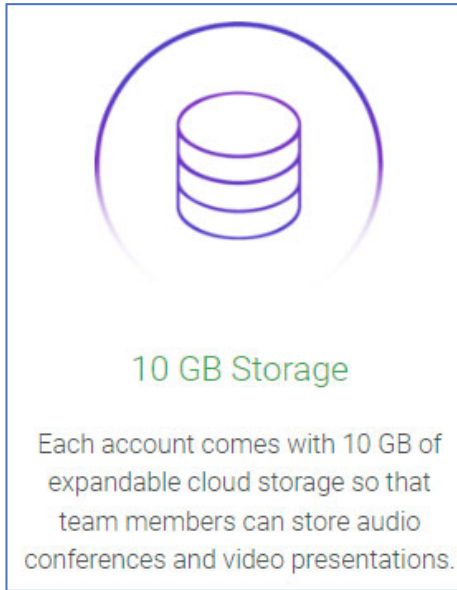
To video record using FreeConferenceCall, join a conference and enable the Record feature by clicking the Record button. When you're finished recording, click the button again to end. Your video recording will appear in your account's dashboard.

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.*

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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>

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>

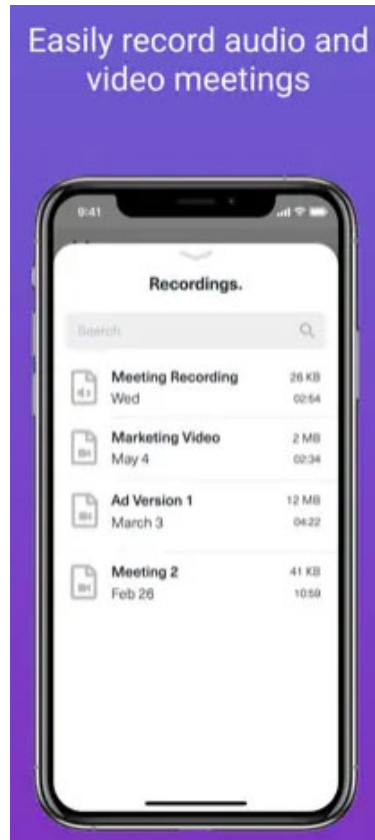
**Free Cloud Storage**

Just where are those recordings stored, anyway? Log in to your online account and head to your History & Recordings page. You'll find an archive of all your recordings and conference details.

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

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



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

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

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

28 *See e.g.,* <https://www.startmeeting.com/support>



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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.

4 See e.g., [https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-](https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf)  
5 [host-reference-guide.pdf](https://www.startmeeting.com/pdf/startmeeting/startmeeting-us-host-reference-guide.pdf)

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

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

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

18 **PRAYER FOR RELIEF**

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

- 21 A. Finding that defendants have infringed one or more claims of the  
22 '068 patent under 35 U.S.C. §§ 271(a);  
23 B. Finding that defendants have infringed one or more claims of the  
24 '728 patent under 35 U.S.C. §§ 271(a);  
25 C. Finding that defendants have infringed one or more claims of the  
26 '930 patent under 35 U.S.C. §§ 271(a);  
27 D. Finding that defendants have infringed one or more claims of the  
28 '648 patent under 35 U.S.C. §§ 271(a);

- 1 E. Finding that defendants have infringed one or more claims of the
- 2 '109 patent under 35 U.S.C. §§ 271(a);
- 3 F. Finding that defendants have infringed one or more claims of the
- 4 '142 patent under 35 U.S.C. §§ 271(a);
- 5 G. Finding that defendants have infringed one or more claims of the
- 6 '707 patent under 35 U.S.C. §§ 271(a);
- 7 H. Finding that defendants have infringed one or more claims of the
- 8 '855 patent under 35 U.S.C. §§ 271(a);
- 9 I. Finding that defendants have infringed one or more claims of the
- 10 '833 patent under 35 U.S.C. §§ 271(a);
- 11 J. Awarding Onstream damages under 35 U.S.C. § 284, or otherwise
- 12 permitted by law, including supplemental damages for any
- 13 continued post-verdict infringement;
- 14 K. Awarding Onstream pre-judgment and post-judgment interest on
- 15 the damages award and costs;
- 16 L. Awarding cost of this action (including all disbursements) and
- 17 attorney fees pursuant to 35 U.S.C. § 285, or as otherwise
- 18 permitted by the law; and
- 19 M. Awarding such other costs and further relief that the Court
- 20 determines to be just and equitable.

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**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