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Training Center

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Getting Started

• How does Training Center differ from Meeting Center?
• What do I need to host or attend a training session?
• Does Training Center support accessibility?
• Does Training Center support languages other than English?
• Does WebEx offer professional services to help me get started or work with Training Center?

How does Training Center differ from Meeting Center?
Training Center includes all the features of Meeting Center but also provides:
• Advanced scheduling with recurring session support
• Play recorded sessions during a training sessions
• Sortable lists of live and recorded training sessions
• Full-duplex, multi-point VoIP audio
• Enhanced polling in the session
• Web-based polling editor
• Real-time testing in the session
• Pre- and post-session testing
• Question-and-answer (Q & A) in the sessions
• Multiple trainers or panelists
• Attention Indicator to view in real-time whether or not an attendee is paying attention
• Breakout sessions with manual or automatic attendee assignments
• In-session and On-Demand Hands-on Labs
• Support for teleconference and VoIP in the same session including automatic subconferencing support for Breakout sessions and Hands-on Labs
• Charge attendees and/or hosts by credit card—available for customers in the US and UK
• Customizable, advanced registration system for live and recorded training sessions, including waiting list and cancellations
• Detailed training session reports at the session, host, and site level
• SCORM (Shareable Courseware Object Reference Model), PHP, and XML API support
• Optional On-Demand module for creating multimedia presentations with tests, using Microsoft PowerPoint or client recording files (.wrf)

What do I need to host or attend a training session?
To use all of the interactive features in a training session, download and install the WebEx Training Manager on your computer. Training Manager automatically downloads the first time you start a training session. Each time you start a session thereafter, it checks for the latest version and automatically updates itself.

For a detailed list of the computers, operating systems, and browsers that work with WebEx Training Center, see

Does Training Center support accessibility?
Several enhancements were made in the Training Center application for the Windows platform to provide keyboard accessibility and partial screen reader support in certain features. These enhancements comply with Section 508 of the U.S. Rehabilitation Act. For additional information, refer to the "Accessing the meeting window using the keyboard" topic in Training Center Help. In this release, users can now access the Session Controls panel and other floating panels using the keyboard when sharing content in full-screen mode.

Does Training Center support languages other than English?
Yes. We also provide French, German, Italian, Spanish, Portuguese, Korean, Japanese, Simplified Chinese, and Traditional Chinese versions. However, the optional On-demand Module (with the Training Center-Presentation Studio integration) is only available in English. Dutch, European Spanish, and Russian are available only for Windows.

Does WebEx offer professional services to help me get started or work with Training Center?
Yes. Our Training Center Consultative Services can help you set up, run, and wrap-up your training sessions. For details contact WebEx Training Services by email at training_registration@webex.com or by call us at 866-22-WebEx (866-22-93239) and select option "1".
Hosting, Joining, and Setting Up Training Sessions

• Can I schedule sessions from my Lotus Notes or Microsoft Outlook calendar?

• Can I prevent attendees that I didn't invite from joining my sessions?

• Why don't the email notifications show times in the attendee's time zone?

Can I schedule sessions from my Lotus Notes or Microsoft Outlook calendar?
WebEx allows you to schedule training sessions, invite attendees, and start sessions from Microsoft Outlook or Lotus Notes. To get started, see detailed instructions and download the installer from the Support page of your Training Center service site. Not all features in the Scheduler are supported in Outlook integration and Lotus Notes integration.

Can I prevent attendees that I didn't invite from joining my sessions?
Yes. To prevent uninvited attendees from joining a training session you can:

• Specify a password that users must enter to join the session. This password appears in the invitation email message that WebEx sends to the people you invite

• Make the session "unlisted" so that only the people you invite know that it exists.

• Restrict access to the training session; once all invited attendees have joined the training session, you can select Restrict Access on the Session menu to prevent others from joining.

• Expel unwanted attendees from your training session by selecting Expel on the Participant menu.

Why don't the email notifications show times in the attendee's time zone?
Training session times automatically appear in the host's time zone because we cannot determine each attendee's time zone.

Sharing Documents and Applications

• What's the difference between sharing documents and applications?

• What types of files or applications can I share?

• Does everyone in my training session need the file or application that I want to share?

• Can I change documents that I'm sharing?

• Can I share more than one document or presentation at a time?

• Can I save the annotated documents or presentations?

• Can I show animation and slide transitions in presentations?
• Why do my images sometimes look grainy?

• Will my presentations display correctly if my attendees have different resolutions on their computer monitors?

• Why do my attendees sometimes see a yellow crosshatched pattern when I share applications?

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**What's the difference between sharing documents and applications?**

With document sharing, attendees can see the document, but you can't change it. With application sharing, you share the application that you used to create or change the document; as you change the document, your attendees see your changes. Application sharing uses more bandwidth and therefore can affect the overall performance of your session.

You can share virtually any type of document or application, but those that stream video or audio may not display appropriately. To share streaming content, use WebEx "Web content sharing" which displays the content in a Web browser on each attendee's computer. All you have to do is select Web Content from the Share menu, enter the URL of a Web site that contains the streaming content, and your attendees can see it in their own browsers. You can share many documents or presentations at the same time; each document or presentation appears on its own tab in the content viewer.

**What types of files or applications can I share?**

You can share virtually any document or application. For best results, if the application you want to share streams audio or video and is available on the web, you should:

- Display the page in your browser
- Use the Web content sharing feature (which opens a browser window on each attendee's computer)

**Does everyone in my training session need the file or application that I want to share?**

No. Only you need the file or application on your computer.

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**Tip**

If some of your attendees have slow network connections, you might ask them to cache the course material prior to the session. For detailed information see the Training Center Host's guide on the Support page of your Training Center service site.

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**Can I change documents that I'm sharing?**

Yes. Use our application sharing feature and change documents during your training sessions. With application sharing, you can also allow your attendees to control the application for you.

**Can I share more than one document or presentation at a time?**

Yes. Use the WebEx content viewer to share as many documents or presentations as you like. Each document or presentation that you open appears on its own tab in the WebEx content viewer. For detailed information see the Training Center Host's guide on the Support page of your Training Center service site.
Can I save the annotated documents or presentations?
Yes. To save documents or presentations that you annotated, on the File menu, select Save. To view the saved file from your desktop, simply double-click it. The document or presentation appears in the WebEx Document Viewer, which is part of Training Manager.

Can I show animation and slide transitions in presentations?
Yes. If you share a Microsoft PowerPoint presentation, attendees can see the animations and slide transitions. You can also use the WebEx application sharing feature to show animation and slide transitions; just display the presentation in your slide-authoring application and then run the slide show in the application.

Why do my images sometimes look grainy?
The quality of images sometimes may degrade if your Internet connection is slow.

Will my presentations display correctly if my attendees have different resolutions on their computer monitors?
Attendees can see your desktop or application no matter which resolution they are using. For best results set your monitor’s resolution to 800x600 pixels.

Why do my attendees sometimes see a yellow crosshatched pattern when I share applications?
The crosshatched pattern is the shadow of a window that is in front of the application that you are sharing. Just close the window and the pattern no longer appears.

Other Questions

- What affects the performance of my training sessions?
- How can I test performance?
- Why can't I bookmark certain pages on my WebEx site?
- Can I set email notifications to show the meeting time in the attendee's time zone?
- Where can I find the global call-in numbers?
- Can users change their language, time zone, and locale settings?

What affects the performance of my training sessions?
Some of the factors that affect performance include:

- The speed of your computer's Internet connection Internet traffic
- Performance of your firewall and proxy servers

Although you may have a high-speed connection to the Internet, there may be congestion or packet loss on the Internet. You usually can't do much about it other than to inform your network administrator or Internet service provider. Congestion is often transient and resolve itself over time. You should, however, report serious or persistent problems.
How can I test performance?

Use a route tracing utility, such as Trace Route, to determine where problems are exist between your computer and the WebEx servers. The utility sends data from your computer and measures the time it takes to for the data to reach the WebEx server. Ideally, data should take between 1-60 ms to reach the server. If it takes between 60-100 ms, your connection is slow. Times longer than 100 ms are unacceptably slow. If you continue to experience poor performance, contact your network administrator.

To run Trace Route on Windows, open a command prompt and then enter "tracert your_site_URL" (where "your_site_URL" is the address of your WebEx service site). Make sure that you place a space after "tracert".

Why can't I bookmark certain pages on my WebEx site?

Your Meeting Center service Web site dynamically generates many of its pages so you cannot bookmark them. You can, however, bookmark the following pages on your WebEx service site:

<table>
<thead>
<tr>
<th>URL</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;sitename&gt;.webex.com</td>
<td>The home page for your WebEx service site.</td>
</tr>
<tr>
<td>&lt;sitename&gt;.webex.com/meet/&lt;username&gt;</td>
<td>Your Personal Meeting Room page, which shows online sessions that you scheduled and any in-progress meetings that you are currently hosting. You can provide this URL to a user in an email, and you can print it on your business cards. Users who view this page can join any meeting that you are hosting or download your shared files and folders. In the My WebEx &gt; My Profile page, you can specify options for your Personal Meeting Room page, such as including a welcome message, graphics, and links to files and folders that you want to share.</td>
</tr>
<tr>
<td>&lt;sitename&gt;.webex.com/join/&lt;username&gt;</td>
<td>Your join meeting page, which allows an attendee to join a meeting you have started, or if no meeting is in progress, it displays your Personal Meeting Room.</td>
</tr>
<tr>
<td>&lt;sitename&gt;.webex.com/start/&lt;username&gt;</td>
<td>Your start meeting page, which allows you to start a meeting you have scheduled, or if more than one meeting is scheduled, it displays your Personal Meeting Room.</td>
</tr>
</tbody>
</table>

Can I set email notifications to show the meeting time in the attendee’s time zone?

Yes. For better ease-of-use for global attendees, you can invite attendees in their own language and time zone. The invitation displays the meeting time in the attendee's time zone, and the meeting link in the invitation displays meeting information in the attendee's language and allows the attendee to join the meeting in their own language. This option is available only when scheduling on Web pages.

The host's settings for language and time zone are used by default. When inviting an attendee from an address book, stored settings for language and time zone are used. Any attendee's language and time zone can be overridden by the host when inviting the attendee.
Where can I find the global call-in numbers?

If your site has WebEx audio turned on, and if your site also has the Global Call-in Numbers option turned on, you can view or display the global call-in numbers in two ways:

- In My WebEx, select My Audio. Under Personal Conference Number, select the Show all global call-in numbers link.

- When you are scheduling a meeting, under Audio Conference Settings, turn on the Display global call-in numbers option. This option provides a link to the list of numbers—such as toll-free or local numbers—that attendees in other countries can call to connect to audio.

For information about global toll-free calling restrictions, go to http://www.webex.com/pdf/tollfree_restrictions.pdf.

Can users change their language, time zone, and locale settings?

Yes. Calendar pages, meeting information pages, Join pages, and email invitations now display links that allow users to easily change their language, time zone, and locale settings.
Productivity Tools

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- Site Administration, page 16

General Questions

- What are WebEx Productivity Tools?
- What desktop integrations are available using Productivity Tools?

What are WebEx Productivity Tools?
WebEx Productivity Tools make it very easy for users to start, schedule, invite, and join WebEx meetings from their desktop or from commonly used desktop applications.

What desktop integrations are available using Productivity Tools?
The following Productivity Tools are available for use with WebEx services:

- Microsoft Outlook integration
- IBM Lotus Notes integration
- Instant messenger integrations:
  - Microsoft Lync/ Microsoft Office Communicator (OCS)
  - Lotus Sametime
  - Yahoo
  - Google Talk
Installation and Configuration

How can I install Productivity Tools?

All that is required is logging on to your WebEx service site. When you log on to your WebEx service site, Productivity Tools are automatically installed on your desktop. If automatic installation is turned off on your WebEx service site, you can download them yourself. In the left navigation bar of your WebEx site, under Support, select Downloads. In the Downloads page, under Productivity Tools heading, make sure the correct operating system is selected, and then select Download.

If you are a CMR Hybrid (WebEx-enabled TelePresence) user, you will be required to restart Microsoft Outlook after installing WebEx Productivity Tools.

My WebEx service site has automatic installation of Productivity Tools turned off. How can I install Productivity Tools manually?

There are multiple options to install productivity tools manually:

- How can I install Productivity Tools?
- My WebEx service site has automatic installation of Productivity Tools turned off. How can I install Productivity Tools manually?
- My WebEx service site has automatic installation of Productivity Tools turned on, but I don't want to use Productivity Tools. Can I turn off the automatic installation?
- I like some of the Productivity Tools, but I don't want to use all of them. How can I configure Productivity Tools to be available only for my desired desktop applications?
- How can I uninstall Productivity Tools?
- Can I use WebEx Productivity Tools with multiple WebEx service sites?
- I am a Linux desktop or MAC user. Are Productivity Tools available for me?
- Can I implement single sign-on (SSO) through integration with an identity management system, such as CA Siteminder, Sun Java Access Manager, or Oracle Oblix, so my employees can use their LAN credentials to log on to WebEx and not have to maintain separate user IDs and passwords?
- Can I implement single sign-on (SSO) for CMR Hybrid (WebEx-enabled TelePresence) users?

* Skype
* AOL AIM

- Microsoft Office integrations for Word, Excel and PowerPoint
- Microsoft Internet Explorer integration
- Mozilla Firefox integration

• In the left navigation bar of your WebEx Service site, under Support, select Downloads. In the Downloads page, next to the WebEx Productivity Tools heading, select Download Now.

• Go to the Schedule a Meeting page. At the top of the page, there is a contextual awareness tip about Productivity Tools. Select on the Install Productivity Tools link to install Productivity Tools.

My WebEx service site has automatic installation of Productivity Tools turned on, but I don’t want to use Productivity Tools. Can I turn off the automatic installation?

Yes. Select My WebEx > My Profile. In the Productivity Tools section, turn off the Automatically download Productivity Tools when logging in to WebEx service site option.

I like some of the Productivity Tools, but I don’t want to use all of them. How can I configure Productivity Tools to be available only for my desired desktop applications?

On your desktop, select Start > Programs > WebEx > Productivity Tools > WebEx Settings. In the WebEx Settings dialog box, select the Tools tab. In the list of available Productivity Tools, turn off the options for the applications you do not want to use Productivity Tools with.

How can I uninstall Productivity Tools?

On your desktop, select Start > Programs > WebEx > Productivity Tools > Uninstall. You can also uninstall using Add or Remove Programs from the Windows Control Panel.

Can I use WebEx Productivity Tools with multiple WebEx service sites?

You can not use Productivity Tools with multiple WebEx service sites simultaneously. If you need to switch service sites, select Start > Programs > WebEx > Productivity Tools > WebEx Settings and update your site and account information to use Productivity Tools with the new site.

I am a Linux desktop or MAC user. Are Productivity Tools available for me?

Currently Productivity Tools are available only for Microsoft Windows users and Mac users.

Can I implement single sign-on (SSO) through integration with an identity management system, such as CA Siteminder, Sun Java Access Manager, or Oracle Oblix, so my employees can use their LAN credentials to log on to WebEx and not have to maintain separate user IDs and passwords?

Yes. Refer to the Site Administration document for Productivity Tools on how to configure your WebEx site to implement single sign-on (SSO) and integrate with an identity management solution.

Can I implement single sign-on (SSO) for CMR Hybrid (WebEx-enabled TelePresence) users?

Scheduling Meetings using Productivity Tools

- **What are the different ways I can schedule meetings using Productivity Tools?**
- **How do I schedule a WebEx meeting using Outlook or Lotus Notes integration?**
- **How do I start a scheduled WebEx meeting using Outlook or Lotus Notes integration?**
- **How do my attendees join my scheduled WebEx meeting using Outlook or Lotus Notes integration?**
- **I know my preferences (such as teleconference, join before start, tracking code, etc.) for WebEx meetings that I schedule using Outlook or Lotus Notes integration. Why do I need to specify these options for every meeting? Can I specify these preferences once so they are available for all future meetings?**
- **Are exceptions to a recurring meeting series supported for CMR Hybrid (WebEx-enabled TelePresence) Meetings?**

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**What are the different ways I can schedule meetings using Productivity Tools?**
If you use Microsoft Outlook or IBM Lotus Notes as your email client, you can schedule WebEx meetings directly from the Outlook or Lotus Notes scheduler using Productivity Tools.

**How do I schedule a WebEx meeting using Outlook or Lotus Notes integration?**
You schedule a WebEx meeting with Outlook or Lotus Notes integration the same way you schedule other meetings. In the scheduler, select **Add WebEx Meeting** to add a WebEx meeting to your Outlook or Lotus Notes meeting.

**How do I start a scheduled WebEx meeting using Outlook or Lotus Notes integration?**
When you add a WebEx meeting to your Outlook or Lotus Notes meeting, the meeting on your calendar includes a URL link that you can click to start a meeting.

**How do my attendees join my scheduled WebEx meeting using Outlook or Lotus Notes integration?**
When attendees open a meeting on their Outlook or Lotus Notes calendar, they will see a URL link that they can click on to join the WebEx meeting. Attendees can also click on the URL link in the Outlook or Lotus Notes meeting invitation to join the meeting.

**I know my preferences (such as teleconference, join before start, tracking code, etc.) for WebEx meetings that I schedule using Outlook or Lotus Notes integration. Why do I need to specify these options for every meeting? Can I specify these preferences once so they are available for all future meetings?**
When you schedule meetings on your WebEx site, you can save meeting templates to use for future meetings. You can then use these meeting templates when you schedule meetings in Productivity Tools. In addition, if your administrator has created predefined meeting templates for your organization, you can use those meeting templates in Productivity Tools.
Are exceptions to a recurring meeting series supported for CMR Hybrid (WebEx-enabled TelePresence) Meetings?

No, exceptions to a recurring meeting series are not supported for CMR Hybrid (WebEx-enabled TelePresence) meetings and Productivity Tools.

The following issues exist for exceptions to a recurring meeting series using CMR Hybrid meetings and Productivity Tools:

- Exceptions to a recurring meeting series for CMR Hybrid meetings are still NOT supported as of WBS29.13, and users are warned accordingly (for example, unsupported editing options are disabled, and error messages are included in email invitations) when they attempt to schedule them using Productivity Tools.

- WebEx meeting applications and TelePresence devices can join the same CMR Hybrid meeting, even if a normal exception to a meeting series has been created. WebEx does not support creating orphan meeting exceptions, such as adding WebEx to a single occurrence of a meeting series.

- Hosts can still edit the following items for a CMR meeting series that does not have exceptions: WebEx special properties, such as alternate hosts, audio options, and the WebEx meeting password; Microsoft Outlook common properties, such as subject and attendees; and TelePresence properties.

- Once an exception has been made to a CMR Hybrid recurring meeting series, the following conditions exist:
  - The Outlook common properties can still be edited for both the exception and the meeting series
  - The TelePresence properties cannot be edited for either the exception or the meeting series (the panel for editing TelePresence settings is disabled).
  - The WebEx special properties cannot be edited for either the exception or the meeting series.

- If a WebEx-only meeting series has exceptions, TelePresence cannot be added to it.

- Unlike prior releases, in WBS 29.11.3 and later, the following features are not available for CMR Hybrid users:
  - CMR Hybrid users do not have the ability to edit the TelePresence properties or WebEx special properties in a CMR Hybrid series that has exceptions.
  - CMR Hybrid users do not have the ability to add or remove TelePresence or WebEx entirely from a series if it has exceptions

- The Mac version of Productivity Tools, which is new in WBS29.13, is expected to have similar limitations for exceptions to a meeting series.

Instant Meetings using Productivity Tools

- What are the different options I have to start instant meetings?

- What is the WebEx Productivity Tools panel?

- How can I invite an attendee to a WebEx meeting using the WebEx Productivity Tools panel and Meet Now?
• Can I join a WebEx meeting using the WebEx Productivity Tools panel?

• Can I start my scheduled WebEx meetings using the WebEx Productivity Tools panel?

• How can I invite my buddy to a WebEx meeting using an instant messenger integration?

• I already have a WebEx meeting in progress on my desktop—how can I invite my instant messenger buddy to an in-progress meeting?

• What is the best way to start a WebEx meeting from Microsoft Office documents?

• Are instant meetings supported for CMR Hybrid (WebEx-enabled TelePresence) meetings?

What are the different options I have to start instant meetings?
You can start instant meetings with the following Productivity Tools:

• One-Click

• Instant messenger integrations:
  ◦ Yahoo
  ◦ Google Talk
  ◦ Skype
  ◦ AOL AIM
  ◦ Microsoft Office Communicator (OCS)
  ◦ Lotus Sametime

• Microsoft Office integrations:
  ◦ Word
  ◦ Excel
  ◦ PowerPoint

• Internet Explorer integration

• Mozilla Firefox integration

What is the WebEx Productivity Tools panel?
The WebEx Productivity Tools panel (formerly called the WebEx One-Click panel) is a simple way to start
and join meetings and to send meeting invitations without logging in to your WebEx site or navigating Web
pages. The WebEx Productivity Tools panel is available from the Start menu, from the WebEx Productivity
Tools shortcut on your desktop, and from the WebEx Productivity Tools icon in the taskbar.

How can I invite an attendee to a WebEx meeting using the WebEx Productivity Tools panel and Meet Now?
Right-click the WebEx Productivity Tools icon in the taskbar and select Open WebEx Productivity Tools.
In the WebEx Productivity Tools panel, you can either type your contact’s email address or select the Address
book icon to select your contacts from your Outlook or Lotus Notes directory. Once you have selected your contacts, you can select **Meet Now** to start a WebEx meeting and automatically send invitations, using your local mail application, to all selected contacts to join the WebEx meeting.

**Can I join a WebEx meeting using the WebEx Productivity Tools panel?**

Yes. Right-click the WebEx Productivity Tools icon in your taskbar and select **Join Meeting**. Type the host’s email address or the meeting number to join WebEx meeting. You need to know the meeting password to join your host’s meeting.

**Can I start my scheduled WebEx meetings using the WebEx Productivity Tools panel?**

Yes. Right-click the WebEx Productivity Tools icon in your taskbar and select **Start Scheduled Meeting**.

**How can I invite my buddy to a WebEx meeting using a instant messenger integration?**

Start a instant messenger chat session with your buddy. In the chat window, select **Start a WebEx Meeting** to start a WebEx meeting and then send a meeting invitation to your buddy as a chat message.

**I already have a WebEx meeting in progress on my desktop-how can I invite my instant messenger buddy to an in-progress meeting?**

Start a chat session with your buddy. In the chat window, select **Invite to Meeting** to invite your buddy to an in-progress WebEx meeting.

**What is the best way to start a WebEx meeting from Microsoft Office documents?**

In the toolbar of your Microsoft Office document, spreadsheet, or presentation, select **Share as Application**. This starts a WebEx meeting and automatically shares that application. To invite others to the meeting select the **Participants Panel** button in the floating icon tray, select **Invite** or **Remind Participants**, and then select **Invite by Email** or **Invite by IM**. You can also invite attendees using One-Click or an Instant Messenger integration.

**Are instant meetings supported for CMR Hybrid (WebEx-enabled TelePresence) meetings?**

No. You cannot start an instant CMR Hybrid (WebEx-enabled TelePresence) meeting; you can only schedule CMR Hybrid meetings. When CMR Hybrid users start instant meetings, they are WebEx-only meetings and do not include TelePresence integration.

Starting with WBS29.11, instant meetings that you start with the Meet Now command (formerly called One-Click Meeting) are held in your Personal Room by default. You can change this option in "Preferences." CMR Hybrid (WebEx-enabled TelePresence) users will have Personal Rooms, but only users who join from a WebEx meeting application or app can join those Personal Rooms. TelePresence devices cannot join Personal Room meetings on CMR Hybrid sites. Sites and user host accounts must have CMR Cloud in order for users to join Personal Room meetings from TelePresence devices or other video conferencing systems or applications.

A workaround for an instant meeting that uses both WebEx and TelePresence is to start a meeting from a TelePresence system and then the named host has selects Instant WebEx Meeting on the meeting detail page to generate a URL that allows external participants to join the TelePresence meeting from a WebEx application or mobile app.
Site Administration

- I don’t want hosts to automatically install Productivity Tools. What are the different options I have for installing Productivity Tools on users’ desktops in my company?

You can turn off automatic installation of Productivity Tools with Site Administration options. You can use the following methods to install Productivity tools on all users' desktops:

  • Install WebEx Productivity Tools on user's desktops using a software distribution tool, such as Microsoft SMS, IBM Tivoli, WebEx System Management, and so on.
  
  • Request hosts to manually download WebEx Productivity tools from the Download section of WebEx Support pages.
  
  • Follow the instructions for silent installation or mass deployment of WebEx Productivity Tools in the IT Administrator Guide for Mass Deployment of WebEx Productivity Tools.

- Users in my company do not have administrator privileges. How can they install Productivity Tools?

Administrator privileges are not required to install WebEx Productivity Tools. Even standard users with no administrator privileges can install Productivity Tools.

- All computers in my company are locked down. How can I install Productivity tools on all users' desktops in my company?

Turn off automatic installation and automatic upgrades for Productivity Tools in the WebEx service site administration options. Use a software distribution tool, such as Microsoft SMS, IBM Tivoli, WebEx System Management, and so on, to install Productivity Tools on the all users' desktops in your company.
Meetings run by our executives are confidential and sensitive meetings. Employees in my company know the email addresses for executives. How can I prevent employees from joining confidential and sensitive meetings?

Schedule confidential and sensitive meetings as unlisted meetings, and then in the Productivity Tools section of Site Administration, turn off the Allow users to join unlisted meetings using the host's email address option.

I don't want my employees to use instant messenger integrations. Can I pick and choose which Productivity Tools my employees will use?

Yes. Go to Productivity Tools section of Site Administration. In the list of Productivity Tools, turn on or off Productivity Tool options based on your business needs.

I don't like the default contextual awareness tips that appear on Schedule a Meeting pages. Can I customize those messages?

Yes. You can customize messages in the Productivity Tools section of Site Administration.

What are the best practices for deploying Lotus Notes integration across all computers in my company?

Other WebEx documents are available that contain information about Lotus Notes deployment. Ask your Client Services Manager to provide the Lotus Notes deployment checklist document, and then follow the instructions for mass deployment of WebEx Productivity Tools in the IT Administrator Guide for Mass Deployment of WebEx Productivity Tools.
CHAPTER 3

WebEx Audio

- General Questions, page 19

General Questions

- What's the capacity for WebEx Audio?
- Are there any calling restrictions from certain locations?
- Does WebEx Audio support a mixed-mode or hybrid audio conference with VoIP attendees?
- What are the known issues and limitations for CMR Hybrid (WebEx-enabled TelePresence) and CMR Cloud meetings that use telephony service provider (TSP) audio?

What's the capacity for WebEx Audio?
WebEx Audio capacity is 1000 attendees for all supported WebEx services with 500 attendees on telephony and 500 on WebEx integrated VoIP.

Are there any calling restrictions from certain locations?

Does WebEx Audio support a mixed-mode or hybrid audio conference with VoIP attendees?
Yes, WebEx Audio supports a hybrid audio in the Meeting Center and Training Center services.

What are the known issues and limitations for CMR Hybrid (WebEx-enabled TelePresence) and CMR Cloud meetings that use telephony service provider (TSP) audio?
For some telephony service provider (TSP) audio accounts, if a host with a TSP account schedules two adjacent CMR Hybrid or CMR Cloud meetings, with the second one scheduled to start immediately after the first one ends, and if the TelePresence scheduling system automatically extends the first meeting past the scheduled end, the second meeting will end automatically because the same TSP audio account and host access code cannot be used for both meetings at the same time.
To work around this problem, hosts can set up two different TSP audio accounts with different host access codes, and use one account for the first meeting and the other account for the second meeting. Another option is for the administrator to turn off the option for the TelePresence systems to automatically extend the meeting.
Integrated VoIP Audio

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- System Requirements and Technical Information, page 22
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General Questions

- What are the features of Integrated VoIP audio?
- What is the attendee capacity for Integrated VoIP audio?
- How does WebEx VoIP audio help me know if attendees cannot hear me?

What are the features of Integrated VoIP audio?

The following are brief descriptions of the features of Integrated VoIP audio:

- **Services Support**: Integrated VoIP is supported in the services and platforms listed in the following table:

<table>
<thead>
<tr>
<th>Center</th>
<th>Windows</th>
<th>Solaris</th>
<th>Linux</th>
<th>Macintosh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meeting Center</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Training Center</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Event Center</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Support Center</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

- **Hardware requirements**: No special hardware is required to use integrated VoIP. A full duplex sound card and speakers or headset are all that is required. A headset is recommended for users wishing to
speak. USB devices are also supported on Windows and Mac as long as the device has drivers for the operating system.

• **Number of attendees**: Integrated VoIP supports up to 500 attendees (1,000 for Training Center).

• **TCP/UDP support**: Integrated VoIP can use UDP or TCP as a transport method. UDP transport allows offers lower latency for VoIP sessions. TCP offers optional SSL security with slightly higher latency. When VoIP is started as a service, each client attempts to connect via UDP first and then reverts to TCP as a transport protocol. Meetings can support a mix of UDP and TCP attendees.

• **SSL Support**: Integrated VoIP can (if the site is SSL enabled) use SSL as a transport method. SSL provides highly secure transport for VoIP traffic. SSL may introduce additional latency for VoIP connections.

• **Echo Cancellation**: Integrated VoIP features built in echo cancellation offering improved performance under most conditions.

• **Automatic Gain Control**: Integrated VoIP features automatic gain control provides level equalization for meeting attendees.

• **Cross-platform support**: Cross-platform support for Support Center

**What is the attendee capacity for Integrated VoIP audio?**

You can invite up to 500 attendees to a session (1,000 for Training Center).

**How does WebEx VoIP audio help me know if attendees cannot hear me?**

Integrated VoIP displays a network indicator in the **Volume** window (available from the Audio menu) that shows how your network is performing and the overall quality of the audio your attendees hear. The indicator displays one of the following colors:

• Green, when more than 85% of your attendees are experiencing good-quality audio
• Yellow, when fewer than 50 to 85% of your attendees are experiencing good-quality audio
• Red, when fewer than 50% of your attendees are experiencing good-quality audio

**System Requirements and Technical Information**

• What are the system requirements?

• Which WebEx service sites offer VoIP audio?

• What do I need to use WebEx Integrated VoIP?

• Can I use TCP, UDP, or PSTN with WebEx Integrated VoIP audio?

• Can I use WebEx Integrated VoIP if my site is SSL-enabled?

• Can I use VoIP over dial-up connections?

• Can I provision WebEx VoIP from an EMX node.
• Is VoIP a full or half duplex transmission?

What are the system requirements?
Your system must meet the requirements shown in Cross-platform Features (WBS30).

Which WebEx service sites offer VoIP audio?
You can use Integrated VoIP with the WebEx services and computers listed in the following table:

<table>
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<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
</tr>
</tbody>
</table>

What do I need to use WebEx Integrated VoIP?
To use WebEx Integrated VoIP, you will need a full duplex sound card and speakers or headset. To speak, you should have a microphone that is connected to your computer. For best results, we recommend that you use a headset.

Can I use TCP, UDP, or PSTN with WebEx Integrated VoIP audio?
You can use the UDP or TCP protocols with WebEx VoIP audio. With UDP, you may experience lower latency rates (delays) than with TCP, but with TCP, you can use the SSL security protocol (and the latency rate will probably be greater). When VoIP starts, WebEx tries to connect using UDP and then switches to TCP. You can conduct sessions where some attendees use UDP while others use TCP. UDP is only supported for non-SSL sites. In order to use UDP, the IP ports 9000 and 9001 must be opened for outbound communication using UDP on the corporate firewall. UDP is selected automatically if the ports are open.

Can I use WebEx Integrated VoIP if my site is SSL-enabled?
Yes. You can use SSL if you also use the TCP transport protocol.

Can I use VoIP over dial-up connections?
Integrated VoIP is not recommended for dial-up connections. UCF-based PowerPoint sharing should work satisfactorily as long as video is not enabled and only one active microphone is in use. Application and desktop sharing in concert with Integrated VoIP is not supported on connections of less than 56Kb/s.

Can I provision WebEx VoIP from an EMX node.
Integrated VoIP can be provisioned from a WebEx™ Extended MediaTone eXchange (EMX) node on a case-by-case basis. Please contact Product Management for further information.
Is VoIP a full or half duplex transmission?
Integrated VoIP is full duplex, meaning multiple attendees can speak at the same time. This is similar to a traditional teleconference using PSTN. Half duplex is a VoIP conference where only one attendee can speak at a given time, similar to a CB radio.

Troubleshooting

- Why is there a delay in the audio during my VoIP conferences? Why does the quality seem to be not as good as traditional telephony?
- Why do I get good quality on some VoIP calls, but not on others?
- What if the customer experiences any technical issues with Integrated VoIP?

Why is there a delay in the audio during my VoIP conferences? Why does the quality seem to be not as good as traditional telephony?

Traditional PSTN-based teleconferencing is circuit-based, which gives each participant a dedicated channel to the teleconference bridge; the delay is virtually unnoticeable. Typically, the only delay one encounters in a circuit-switched voice environment is due to the distance the voice must travel. A good VoIP solution will have delay of about 0.25 - 0.5 seconds, depending the following factors:

- **Network congestion**: VoIP solutions send the voice information over an IP network (such as the Internet), which is a shared medium on which the packets are routed on a first-in/first-out basis. Congestion on any of the routers between the meeting participants will delay and/or degrade the audio.

- **Encoding process**: When you speak into the microphone, the sound card in your PC captures and digitizes the sound. This information is then broken up into data packets that are sent over the network to the conference server(s). The conference server(s) sends these packets to the other attendees’ PCs, where the encoding process is reversed. The encoding process for integrated VoIP relies on audio components (microphone, speakers, and sound card), and these can vary greatly from PC to PC. Lower quality components will produce lower quality audio.

Such delay and audio quality issues are common to the VoIP solutions offered by all the vendors—not just WebEx. VoIP solutions offered by vendors such as Centra, et al., suffer from the same shortcomings when compared to PSTN. Based on our testing, the delay and audio quality of WebEx VoIP is at least on par with that of Centra's.

Why do I get good quality on some VoIP calls, but not on others?

It is hard to have a straight answer to this question due to the number of possibilities. You can have a perfect VoIP conference with a 28-Kbps connection to a country halfway around the world, followed by a scratchy mess for a call to the next state with a 56-Kbps or a 300+-Kbps connection. The quality is almost entirely determined by the sample rate (number of "slices" per second it uses to reproduce your voice) of the VoIP software, plus the throughput of your internet connection. A 56-Kbps (or a 300+-Kbps LAN, for that matter) connection does not ensure that you can move data across the Internet at that speed; the actual speed is determined by traffic levels on all networks between the source and end point, and the equipment capabilities at the source and end point. In general, poor-quality transmissions are a result of traffic and cannot be avoided completely in VoIP that uses Internet for all or part of the voice-data traffic.
What if the customer experiences any technical issues with Integrated VoIP?

Follow the standard Technical Support escalation process.
CHAPTER 5

Recording and Playback

- General Questions, page 27
- Network-Based Recording or "Record on Server", page 30
- Playing Recordings, page 32
- Creating and Publishing Recordings, page 33
- Editing Recordings, page 35
- Recording CMR Hybrid Meetings, page 36
- Known Issues and Workarounds, page 36

General Questions

- What tools does WebEx provide for recording, editing, and playing recordings?
- What do I need to play recordings?
- Can I play WebEx recordings with any multimedia player?
- How can I get the WebEx recorder, editor, and players?
- How do I convert WebEx network-based recording files (ARF) to Windows Media File format (WMV), Flash format (SWF), or MPEG-4 format (MP4)?
- When I try to convert my ARF file to MP4 format, I'm asked for a URL, username, and password. What should I enter?
- My WebEx site requires that I sign in through my company website (through single sign-on) and I don't have a WebEx username and password. What should I do if I want to convert ARF files to MP4 format?
- How do I connect the DynaMetric adapter to my computer and phone?
What tools does WebEx provide for recording, editing, and playing recordings?

With the WebEx recorders you can record everything that happens in a WebEx meeting: audio, video, chat conversations, notes, etc.

There are two options for recording a WebEx meeting: Network-based recording (Record on Server) with the Network-Based Recorder (NBR) and Local recording. When using Network-based recording, no additional hardware is required. All meeting content is automatically recorded on the WebEx servers and is easily accessible.

If you want to change the recording, such as making it shorter or eliminating sections where nothing important is happening, we provide another tool that allows you to change it. If you save recordings to your WebEx service site, you can publish the recording on a Web page so that others can play it or download it to their computer.

Choose from the following players and recorders:

| **WebEx Network Recording Player for Advanced Recording Format (.arf) files** | Use it to play recordings in ARF format (Network-based recordings). Use the player to convert recording to Windows Media Format (.wmv), Flash format (.swf), or MPEG-4 format (MP4). No editing is supported in the player. Basic editing is supported on the recording properties on your WebEx service Web site, such as truncating the beginning or end of the recording, and removing panels such as video, chat, etc. |
| **WebEx Recorder and Player for Recording Format (.wrf) files** | This is a standalone recorder and player that allows you to save recordings in the WebEx proprietary WRF format on your computer. You can also use it to record applications or your computer to create software demonstrations, training, and so on. You can then upload recordings to your WebEx site and share them with others by sending them the provided streaming/download URLs. |
| **WebEx Recording Editor** | Use this tool to add, delete, or rearrange parts of a recording in WRF format. |

For detailed information about using each of these players, see the user guides on the Support page of your WebEx service site.

What do I need to play recordings?

To play WebEx recordings you should have a sound card; to play recordings on the Web you should have an Internet connection.

To record teleconferences when using WebEx stand-alone recorder, you should also have:

- A computer headset (presenters only)
- A phone headset (preferred over regular phone handsets for presenters who speak during a teleconference)
- A phone recording adapter

This is required to connect your phone to your computer. WebEx recommends the DynaMetric TLP-120 or TMP-636 adapters; the TMP-636 adapter supports bidirectional audio which is useful for recording audio that contains UCF rich media.
A universal amplifier (WebEx recommends the Plantronics MX10 universal amplifier and headset)

**Can I play WebEx recordings with any multimedia player?**

Yes, but you must first download the recording from the WebEx service Web site and convert it to Windows Media File (.wmv) format, Flash (.swf) format, or MPEG-4 format (MP4). To convert a network-based recording (.arf) to Windows Media File (.wmv) format, Flash (.swf) format, or MPEG-4 format (MP4), use the WebEx Network Recording Player.

*Note*

The WebEx Network Recording Player does not support converting recordings to MP4 format on Mac systems.

To convert a local recording (.wrf) to WMV format, use the WebEx Recording Editor.

**How can I get the WebEx recorder, editor, and players?**

If you have an account on your WebEx site:

1. On the navigation bar at the left, select **Support**.
2. Select **Downloads**.
3. Scroll down to the Recorders and Players section and select **Recording and Playback**.
4. Download the desired player.

**How do I convert WebEx network-based recording files (ARF) to Windows Media File format (WMV), Flash format (SWF), or MPEG-4 format (MP4)?**

Start the WebEx Network Recording Player and open your ARF file. Select **File > Convert Format** and select the desired format. Select the desired configuration in the dialog that pops up and select **Convert**.

*Note*

The WebEx Network Recording Player does not support converting recordings to MP4 format on Mac systems.

**When I try to convert my ARF file to MP4 format, I’m asked for a URL, username, and password. What should I enter?**

The URL you should enter is your WebEx site; for example, company.webex.com. The username and password should be your WebEx username and password.

*Note*

The WebEx Network Recording Player does not support converting recordings to MP4 format on Mac systems.

**My WebEx site requires that I sign in through my company website (through single sign-on) and I don’t have a WebEx username and password. What should I do if I want to convert ARF files to MP4 format?**

Converting ARF files to MP4 format is not currently supported for WebEx sites integrated with single sign-on.
How do I connect the DynaMetric adapter to my computer and phone?

To connect the adapter to phone:

1. Unplug your phone handset or headset from the phone jack and connect the DynaMetric telephone cord to the jack.
2. Plug the phone handset or headset into the DynaMetric adapter.
3. Plug the DynaMetric gray audio cable into your computer's microphone jack. (If you are using the DynaMetric TMP-636, plug the black cable into the computer's headphone jack.)

**Network-Based Recording or “Record on Server”**

- What is network-based recording (NBR) or "Record on Server"?
- Which centers can use network-based recording?
- Which operating systems are supported for a host using network-based recording?
- Do I need any additional hardware to use network-based recording for my meetings?
- What is the typical size of a one-hour recording?
- How long until my recordings are available for viewing or distribution?
- Where can I find my recordings?
- How do I get the WebEx Network Recording Player?
- How do I publish my recording to my attendees?
- Does network-based recording capture all the content of the meeting?
- Does network-based recording capture third-party audio?
- Does network-based recording capture VoIP and Audio Broadcasting?
- Can I pause the recording when I am recording on the server?
- I cannot play my network-based recording file on the latest WebEx Network Recording Player after my site was upgraded. What should I do?

**What is network-based recording (NBR) or “Record on Server”?**

Network-based recording (NBR) is a recording option available to WebEx customers on release WBS25 or later. Network-based recording enables you to capture all meeting content, including WebEx integrated audio, VoIP audio, or third-party audio conference for later playback and sharing. NBR recordings are saved to WebEx high-availability storage servers, making it easy to access all meeting content.

Unlike the stand-alone WebEx Recorder for WRF format files, network-based recording is managed completely within the WebEx client and does not require the use of additional hardware, such as a phone recording adapter.
to record the teleconference. Network-based recording also provides basic editing capabilities through your WebEx service site, without requiring the use a video-editing application.

**Which centers can use network-based recording?**
WebEx Meeting Center, Event Center, Support Center, and Training Center.

**Which operating systems are supported for a host using network-based recording?**
A host using network-based recording can use the Windows, Mac, Linux, and Solaris operating systems.

**Do I need any additional hardware to use network-based recording for my meetings?**
No, you can simply get it enabled on your site. In the Meeting Manager you can record all your meeting actions, including the teleconference.

**What is the typical size of a one-hour recording?**
The size will vary depending on the action during the meeting. Typically, a meeting that does not contain video usage ranges from 15 to 40 MB. A meeting with video usage can range in the 250MB size.

**How long until my recordings are available for viewing or distribution?**
Usually, recordings are available between 30 minutes and up to 24 hours after the end of your meeting.

**Where can I find my recordings?**
Your recordings are posted to the My Files section of My WebEx, in the My Recordings tab.

**How do I get the WebEx Network Recording Player?**
You can download the WebEx Network Recording Player by going to Support > Downloads > Recording and Playback.

**How do I publish my recording to my attendees?**
Once your recordings are posted to the My Files section in My WebEx, a streaming URL is generated that can be sent via email, posted to your WebEx service Web site, or posted to any other Web site.

**Does network-based recording capture all the content of the meeting?**
It records the full attendee-view of the meeting, so it captures the following:

- All public chat
- All data including annotations, polls results that are shared, and notes (requires publishing)
- Presenter video (requires at least one attendee present in the meeting)
- WebEx Audio (VoIP and telephony) and third-party audio

It does not capture the following:

- All private chat to the host
- Poll results not shared by the host
• Breakout sessions (Training Center), Media Viewer (Event Center), Closed Captioning (Meeting Center), and Practice Rooms (Event Center) panels are not recorded or played back
• When recording multi-point video, only the presenter’s video is recorded and played back

Does network-based recording capture third-party audio?
Yes. By entering your third-party conference number in the start recording process, you can capture third-party audio in your recording.

Does network-based recording capture VoIP and Audio Broadcasting?
Yes, first start the recording and then start your audio selection.

Can I pause the recording when I am recording on the server?
Yes. A Pause button is available in the Recorder panel when you are recording on the server.

I cannot play my network-based recording file on the latest WebEx Network Recording Player after my site was upgraded. What should I do?
Starting in WBS28.9, a new audio engine was introduced in the WebEx Network Recording Player, and an old audio codec was removed. Due to those changes, network-based recording files (.arf) that were created on a release earlier than WBS27.12 (earlier than March 2010) and use VoIP-only audio can no longer be played on the latest Network Recording Player (they can still be played on earlier versions of the WebEx Network Recording Player). Network-based recordings that use VoIP-only audio and that were created after WBS27.12 can be played on the latest release using the new player with no issues. Network-based recordings that use hybrid audio (mix of VoIP and telephony or telephony only) are not impacted. If you still have access to an older version of the Network Recording Player, you can convert your recording file (.arf) to standard video format such as Windows Media File (.wmv) format, Flash (.swf) format, or MPEG-4 format (MP4).

The WebEx Network Recording Player does not support converting recordings to MP4 format on Mac systems.

Playing Recordings

• Are recordings streamed or downloaded to my computer?
• Can I play a recording if my computer is not connected to the Internet?
• I cannot play my local recording file on the latest WebEx Recorder and Player after my site was upgraded. What should I do?
Are recordings streamed or downloaded to my computer?

As the recording owner (meeting host), you can choose either to stream the recordings by selecting the streaming link or to download the recording file to your computer by selecting the download link. If you do not own the recording, you can ask the host to send you the recording streaming and download links.

Can I play a recording if my computer is not connected to the Internet?

Yes. You need to download and install the appropriate stand-alone player. Select Support > Download > Recording and Playback.

To play back network-based recordings (.arf), install the WebEx Network Recording Player for Advanced Recording Format Files. To play back local recordings (.wrf), install the WebEx Recorder and Player for WRF Format files.

I cannot play my local recording file on the latest WebEx Recorder and Player after my site was upgraded. What should I do?

Starting in WBS28.9, a new audio engine was introduced in the WebEx Player and WebEx Recording Editor. An old audio codec was also removed from these applications. Due to those changes, local recording files (.wrf) that were created on a release earlier than WBS27.12 (earlier than March 2010) can no longer be played on the latest WebEx Player or WebEx Recording Editor (they can still be played on older versions of these applications). Local recordings that were created after WBS27.12 can be played on the latest release using the new player with no issues.

If you still have access to an older version of the WebEx Recording Editor, you can convert your local recording file (.wrf) to a standard video format—Windows Media File (.wmv).

Creating and Publishing Recordings

- Can I record everything that happens in a WebEx meeting, event, or session?
- How do I record a WebEx meeting, event, or session?
- After I record a WebEx meeting, what happens to the recording?
- How do I make my recording available to others?
- Can I record an Internet phone (VoIP) conference?
- Can I record WebEx meetings that contain UCF multimedia?
- How can I improve the quality of the audio when using local recording?
- What audio compression and sampling rates does WebEx support? Which ones should I use?
- How large are recording files?

Can I record everything that happens in a WebEx meeting, event, or session?

Yes. You can record the audio, video, desktop sharing, annotations, chat, and so on.
How do I record a WebEx meeting, event, or session?

Just start or join your WebEx meeting, event, or session, and then press the red Record button.

You can also go to the Meeting menu in Meeting Center, the Event menu in Event Center, or the Session menu in Training Center, select Start Recording.

In Support Center, you can select the Recording button from the session control panel.

Note

If you are a participant, you can record if your presenter has enabled recording for you.

After I record a WebEx meeting, what happens to the recording?

If you used network-based recording (Record on Server) you can find your recordings in the My Files section of the My WebEx page of your WebEx service site, in the My Recordings tab.

How do I make my recording available to others?

Recordings made using network-based recording (Record on Server) will be in your WebEx service Web site under My WebEx > My Files > My Recordings tab. Each recording has a streaming/download link that you can email to others right from the recording list.

Selecting the Send Email icon opens the Share My Recording dialog box and allows you to send an email message to others so they can view the recording.

You can also publish the playback/download link for your recording on your web site for others to access. For details, see the Streaming Recordings on Your Web Site guide on your Support page.

Can I record an Internet phone (VoIP) conference?

Yes.

Can I record WebEx meetings that contain UCF multimedia?

Yes. To record the audio from UCF files at the same time that you record audio from a WebEx meeting, use an adapter such as the DynaMetric TMP-636 or Plantronics MX-10. This allows you to send the sound from your telephone through your computer's sound card. To record video or Flash files, turn off hardware acceleration (or video overlay) on your computer's video card. For details, see the Windows Media Player online help.

How can I improve the quality of the audio when using local recording?

If audio quality is poor or if there is no audio, make sure that:

• You used the WebEx Audio Setup Wizard to test your volume.

• If you are recording audio from a source other than a microphone, start the recorder and select the correct recording source.

• If you hear “clicks and clacks” during playback, you may be using an older version of the WebEx Player. Re-install the player on your computer and try again.

What audio compression and sampling rates does WebEx support? Which ones should I use?

WebEx supports the following audio recording formats:
• G.723 (8 kHz) This is the default setting; it is optimized for streaming over the Internet.
• PCM (8 kHz, 22 kHz, 44 kHz) This results in higher audio quality but much larger file sizes. This is recommended only for recordings that you distribute on a CD-ROM.

How large are recording files?
A one-hour recording is typically between 15 and 40 MB. The size varies depending on whether you have included chat sessions, notes, video, and other features in your recording.

Editing Recordings

• Can I edit recordings?
• Can I dub the recording audio?
• Can I insert markers into a recording?

Can I edit recordings?
Yes. For recordings that were created using the WebEx WRF Player or the WebEx Recorder, Player, and Recording Editor, you can use the WebEx Recording Editor to add, delete, or rearrange recorded data. You can also specify segments in the recording, much like tracks on a CD, so that you can quickly navigate to a specific point during playback. You can download the WebEx Recording Editor from your Support page.

For recordings that were made using network-based recording (Record on Server), basic editing can be done on the Recording Properties page under Playback control, such as specifying a different start and end time for the playback, and omitting specific panels (Participants, Chat, etc.) from the playback.

If additional editing is required, you can use the WebEx Network Recording Player to convert the recording to a Windows Media File (.wmv) format, Flash (.swf) format, or MPEG-4 format (MP4), and then use third-party editing tools to edit the file.

Note
The WebEx Network Recording Player does not support converting recordings to MP4 format on Mac systems.

Can I dub the recording audio?
Yes, but this feature is only available for local recording (.wrf). "Dubbing" is where you copy all or part of a recording. To dub a recording:

1 Use the WebEx Recording Editor to open the WebEx recording.
2 Use the Current Location Indicator to specify where you want to start dubbing.
3 From the Tools menu choose Dub Audio.
4 If you would like audio dubbing to end automatically at the certain point, specify the end point.
5 Select OK.
Can I insert markers into a recording?

Yes, but this feature is supported only in the stand-alone WebEx Recording Editor. You can use markers to specify certain points in the recording. During recording, press the Ctrl-Alt-M keys on your keyboard to insert markers.

Recording CMR Hybrid Meetings

- Can I record a CMR Hybrid (WebEx-enabled TelePresence) meeting?

Can I record a CMR Hybrid (WebEx-enabled TelePresence) meeting?

Yes, starting with WBS29, you can record video, audio, sharing, chat, and polling for CMR Hybrid (WebEx-enabled TelePresence) meetings. Just press Record as you normally would in your WebEx meeting and your recordings will appear in your My Files > My Recorded Meetings list in the My WebEx section.

- File format: CMR Hybrid meeting recordings will be in MP4 format. Video will be recorded at 360 p.
- Viewing recordings: You can view your recordings from your My Recorded Meetings list by selecting the Play button. Our streaming player will allow you to see screen sharing, application sharing, the active speaker video camera feeds, the participant list, chat, and polling.
- Downloading recordings: You can download the screen sharing, application sharing, and audio portion of your meeting as one MP4 file, which can be played back in most standard video players. The downloaded recording does not contain active speaker video camera feeds, the participant list, chat, and polling.
- Editing recordings: To edit a recording, you can download the MP4 file and use your own MP4 video editor.
- Audio map: A new feature of our streaming player shows the time each person is talking (up to six people). You can use the audio map to navigate to key places in the meeting where each participant is talking.

If you are a participant, you can record the meeting if the host has enabled recording for you.

Known Issues and Workarounds

- What are the known issues?
- Why does a security message appear when I play a recording?
- Is the WOT format still supported?
- I see a black screen when I try to record an application. What can I do?
- I converted my network-based recording file (ARF) to Flash format (SWF) but I can't play it on my Flash Player. What can I do?
What are the known issues?

These are the known issues:

- New recordings created using a version 2.1 or later recorder will not play in pre-2.1 players, so be sure to upgrade to and download the latest player.
- You cannot use the recording editor to combine pre-2.1 WRF files with 2.1 WRF files.
- The Solaris player does not play audio from WebEx Internet phone conferences.
- If a host starts a meeting, shares his webcam video, and starts recording the meeting with no other participants, the video playback in the recording may have long periods of time where the video is frozen.
- A recording converted from ARF to MP4 or WMV format may have out-of-sync audio and video, and it may have choppy audio quality.

Why does a security message appear when I play a recording?

A security message appears when you try to play a recording from the Web. The Windows operating system displays this message to let you know that a plug-in for your Web browser is about to be installed.

When you see the message, just select Yes in Internet Explorer to allow the WebEx Player installation to continue. The plug-in does not pose a security threat to your computer or network.

Is the WOT format still supported?

WOT is the original format for WebEx recordings. You can continue to use the WebEx WOT Player to play recordings in this format, however the latest WebEx Player can play only recordings in the WebEx Recording Format (WRF).

I see a black screen when I try to record an application. What can I do?

You are most likely recording an application that uses video overlay, such as an applications that play video files. To record these applications, turn off hardware acceleration (or video overlay) on your computer's video card. To turn off hardware acceleration, see the Windows Media Player online help.

I converted my network-based recording file (ARF) to Flash format (SWF) but I can’t play it on my Flash Player. What can I do?

If you are using Adobe Flash Player version 11.4 or later, you must update your WebEx Network Recording Player to version WBS28.9 or later. After you update your WebEx Network Recording Player, you can convert your ARF file to SWF format by selecting the High key frame rate conversion option.
Global Site Backup

- General Questions, page 39

General Questions

- What is GSB? What is the name of my WebEx backup site?
- Is a WebEx backup site a separate site from the primary site?
- Am I automatically redirected to my backup site when necessary?
- What are some typical instances in which my meeting will be routed to my backup site?
- What happens if the primary site fails during the meeting?
- Can I access the meetings I scheduled on my primary site on my backup site?
- Can I create a new user account on my backup site and use the account on my primary site?
- Can I schedule a meeting on my backup site and start the meeting on my primary site?
- When will maintenance be performed?
- How do I know if I am on my backup site?
- How often is my primary site backed up? During what hours is the site backed up?
- Can I use my backup site even if my primary site is NOT down?
- When I use my backup site, does it access information on my primary site?
- Is the XML API supported on my backup site?
- Is the Client API (SDK) supported on my backup site?
- Is my branding and customization information available on my backup site?
• Are my customized pages available on my backup site?

• How is my backup site usage tracked?

• Will the teleconference number change if I am routed to my backup site from my primary site?

Note

These frequently asked questions apply only to administrators.

What is GSB? What is the name of my WebEx backup site?

GSB stands for Global Site Backup. WebEx’s Global Site Backup (GSB) system ensures that you experience business continuity even in a disaster situation. Additional benefits include full redundancy for maintenance windows or other system outages. GSB provides each customer with a backup WebEx site. The GSB system provides real-time, two-way database data synchronization between the primary site and the backup site. All customers are supported with GSB.

Is a WebEx backup site a separate site from the primary site?

Yes, a backup site is a separate site from the primary site. WebEx hosts the backup site on a different system and at a separate geographic location from the primary site.

Am I automatically redirected to my backup site when necessary?

Yes, the GSB system automatically redirects you to your backup site in the event of the entire meeting system failure. If you started a meeting on your primary site and your primary site fails due to a whole system failure, you are automatically routed to the same scheduled meeting on your backup site. In case of certain partial system failures, WebEx will manually switch your service to the GSB site.

What are some typical instances in which my meeting will be routed to my backup site?

If the primary site fails before a scheduled meeting is started. The scheduled meeting is available on the backup site, since meeting data is synchronized real time between the primary and the backup site. Meetings you scheduled on the backup site will also be available when the primary site is back online again.

What happens if the primary site fails during the meeting?

If the primary site fails due to a whole system failure during a meeting, everyone -- including the host and attendees -- is disconnected from the meeting. All meeting participants can rejoin the meeting using the primary site URL, and they are automatically routed to the backup site. If the meeting collaboration servers still function, you can continue the meeting on your primary site. However, you cannot start a new meeting on your primary site. You can start a new meeting only on your backup site until the services on your primary site are running again.

Can I access the meetings I scheduled on my primary site on my backup site?

With the GSB system, user account and meeting information are synchronized in real-time and in two ways between the primary site and the backup site. You may access the meetings on your backup site only when your primary site is not available.
Can I create a new user account on my backup site and use the account on my primary site?
Yes. A user account created on the backup site will be replicated to the primary site in real time.

Can I schedule a meeting on my backup site and start the meeting on my primary site?
With the current GSB system, the answer is Yes. When you schedule a meeting on your backup site, that meeting is replicated to your primary site instantly. Any meetings that you schedule on the backup site do appear on your primary site.

When will maintenance be performed?
Communication will be sent out for any maintenance ahead of time, and the work will be done in our standard maintenance windows (9PM - Midnight). During this time we will fail-over to the backup site, and then fail-back after the maintenance has been complete, and there should not be any impact to the availability of the service.

How do I know if I am on my backup site?
With the GSB system your backup site looks exactly that same as your primary site. You can identify which site currently connected to by calling http://mycompany.webex.com/mycompany/detectbackup.php. If the URL reaches the primary site, it returns a "Primary" message. If it reaches the GSB site, it returns a "Backup" message.

How often is my primary site backed up? During what hours is the site backed up?
With the GSB system, your site data are synchronized between the primary site and the backup site in real time and in a two-way fashion. If your primary site needs to be updated, WebEx performs the updates during the normal maintenance window from 7 p.m. (PST) to 12 a.m. (PST). These maintenance updates on the primary site are updated to the backup site instantly.

Can I use my backup site even if my primary site is NOT down?
With the GSB system, you may access only one site, either the primary site if it is up, or the backup site in case the primary site is unavailable. The WebEx network automatically redirects the meeting requests to the backup site in case the primary meeting system is down.

When I use my backup site, does it access information on my primary site?
Yes. When you start a meeting replicated from your primary site on the backup site, the meeting status (In Progress/Join Now) will also be displayed for the original meeting on the primary site. Attendees can join the meeting started on the backup site from the primary site.

Is the XML API supported on my backup site?
The XML API is supported on your backup site with GSB. With GSB there is no need to modify your integration codes since the primary site and the backup site have the same URL.

Is the Client API (SDK) supported on my backup site?
Compared with current RUN Site’s support for API customers, the GSB API Support to partners offers many more features. The RUN sites only have user accounts and branding information, while GSB Sites have many more features supported as listed above. GSB also provides a way for API users to detect if they are accessing the backup site by calling http://mycompany.webex.com/mycompany/detectbackup.php. If the URL reaches
the primary site, it returns a "Primary" message. If it reaches the GSB site, it returns a "Backup" message. 
RUN Sites did not provide any indication of Backup sites.

Is my branding and customization information available on my backup site?
In the GSB system, user account and meeting information are synchronized in real-time and in two ways between the primary site and the backup site. The site branding information is replicated once a day from the primary to the backup site only. Branding updates made on the backup site are not available on the primary site.

Are my customized pages available on my backup site?
Yes. The GSB replication system replicates all customized pages and client versions from the primary site to the backup site once a day. Customized pages and clients are usually available on the backup site after 24 hours.

How is my backup site usage tracked?
WebEx merges backup site usage with your corresponding primary sites. Reports on your primary site contain both the primary site and backup site usage.

Will the teleconference number change if I am routed to my backup site from my primary site?
No. You shall use the same teleconference number on your backup site as on your primary site.
Universal Communications Format

- General Questions, page 43
- Working with UCF Files, page 44
- Known Issues and Workarounds, page 46

General Questions

- What is UCF?
- What do I need in order to play rich media content files?
- How can I quickly get started using rich media content files?
- Can rich media content negatively impact my WebEx sessions or network capacity?
- Can I turn off the UCF rich media capabilities if I am concerned about bandwidth?

What is UCF?

UCF is a special file format you can use to display rich media files in WebEx sessions, as well as share any type of document, including PowerPoint and Excel files. UCF files can contain the following types of rich media content:

- WebEx WRF recordings (for more information about WRF files, see Recording and Playback, on page 27).
- Video
- Audio
- Flash files
- Web pages
- Third-party rich media content (through partner integration)
The WebEx Universal Communications Toolkit contains a plugin for Microsoft PowerPoint that you can use to create and share UCF files. In addition, the toolkit includes the WebEx Document Manager, which is an offline viewer for UCF files.

For more information about the toolkit, see the UCF Getting Started guide on the Support page of your WebEx service site.

**What do I need in order to play rich media content files?**

Your computer should meet the following system requirements:

**Windows**
- Vista, 7, 8, 8.1
- Internet Explorer 7, 8, 9, 10, 11
- Adobe Flash player 11 or later (for Flash files)
- Windows Media Player 11 or later (for most audio and video files)
- QuickTime 7 or later (for QuickTime and other audio and video files not supported by Window Media Player)

**Macintosh**
- Mac OS X 10.7 or later (Meeting Center only)
- QuickTime 7 or later (for QuickTime movies)

**How can I quickly get started using rich media content files?**

To make sure that your computer is properly set up, when you schedule a meeting, select the Request that attendees verify rich media players option, and WebEx will ask your attendees to test their computers before they join your session.

**Can rich media content negatively impact my WebEx sessions or network capacity?**

WebEx uses a variety of techniques to minimize the impact to WebEx sessions. Although sharing rich media content can increase network utilization, under normal conditions, the impact to network traffic is negligible.

**Can I turn off the UCF rich media capabilities if I am concerned about bandwidth?**

Yes. Ask your WebEx site administrator to disable UCF rich media for your service site.

**Working with UCF Files**

- Can I share rich media content files during WebEx meetings?
- Can I record WebEx sessions that contain rich media content files?
- What is the difference between inserting files and using a URL? Which method do you recommend?
- What file formats supported for each media type?
Can I share rich media content files during WebEx meetings?

Yes. Just make sure that all attendees have a media player installed on their computers; to prepare for a meeting where you use rich media content files:

- Use the Advanced meeting scheduler and select Invite Attendees.
- On the Invite Attendees page, select the Request that attendees verify rich media players option. If this option is selected, when your attendees join the session, they will be asked to test their systems to make sure that they can play rich media files.
- On the Meeting Options page, select the Enable UCF rich media for attendees option.
- When you create your presentation, preview the slide presentation to ensure that the playback controls are visible.

Can I record WebEx sessions that contain rich media content files?

Yes. To record the audio from UCF files at the same time that you record the audio from a teleconference, use a telephone transmit and receive patch such as the DynaMetric TMP-636 or Plantronics MX-10. This allows you to send the sound from your telephone through your computer sound card. To record video, make sure to turn off hardware acceleration (or video overlay) on your computer video card. For details, see the Windows Media Player online help.

What is the difference between inserting files and using a URL? Which method do you recommend?

Insert a URL to create a link to a file that is stored on a Web server or streaming server. When you insert a file, you are including a file that is stored on your computer or another computer in your network.

If you insert a rich media content file and want to send it to another person, you must also send the file; "zipping" the presentation and the files together is an easy way to do this. If you use Document Manager from the UCF Toolkit, you can save the rich media content inside the UCF file (called embedding) when saving the UCF file. In this case, you need to send only the UCF file itself to the other person.

What file formats supported for each media type?

WebEx UCF supports these types of files:

<table>
<thead>
<tr>
<th>Media type</th>
<th>Formats</th>
<th>Operating System</th>
<th>File extensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web pages</td>
<td>Any supported by Internet Explorer, for example, HTML, ASP, PHP</td>
<td>Windows</td>
<td>*.html, *.htm, *.asp, *.php</td>
</tr>
<tr>
<td>WebEx recordings</td>
<td>WebEx WRF File</td>
<td>Windows</td>
<td>*.wrf</td>
</tr>
</tbody>
</table>

Note
### Media Type

#### Audio
- Advanced Streaming Format (ASF)
- Windows Media Audio (WMA)
- MPEG Audio Layer-3
- MPEG Audio Layer-2
- MPEG Audio
- Musical Instrument Digital Interface (MIDI)
- UNIX Audio (AU)
- Sound (SND)
- Audio for Windows (WAV)
- CD Audio (CDA)
- Audio Interchange File Format (AIFF)

#### Video
- Advanced Streaming Format (ASF)
- Windows Media Video (WMV)
- Audio Video Interleave (AVI)
- MPEG
- QuickTime movie

#### Flash
- Flash

<table>
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| Audio      | Advanced Streaming Format (ASF)  
Windows Media Audio (WMA)  
MPEG Audio Layer-3  
MPEG Audio Layer-2  
MPEG Audio  
Musical Instrument Digital Interface (MIDI)  
UNIX Audio (AU)  
Sound (SND)  
Audio for Windows (WAV)  
CD Audio (CDA)  
Audio Interchange File Format (AIFF) | Windows  
Windows  
Windows  
Windows  
Windows  
Windows  
Windows  
Windows  
Windows  
Windows  
Windows  
Windows  | *.asf  
*.wma  
*.mp3  
*.mp2, *.mpv2  
*.mpa  
*.mid, *.midi, *.rmi  
*.au  
*.snd  
*.wav  
*.cda  
*.aiff, *.aif, *.aifc |
| Video      | Advanced Streaming Format (ASF)  
Windows Media Video (WMV)  
Audio Video Interleave (AVI)  
MPEG  
QuickTime movie | Windows  
Windows  
Windows  
Mac OS, Windows | *.asf  
*.wmv  
*.avi  
*.mpg, *.mpeg, *.m1v, *.mpe  
*.mov, *.qt |
| Flash      | Flash | Windows | *.swf |

### Known Issues and Workarounds

- What are the known issues of using rich media content files?
- Can I use UCF files on Macintosh, Solaris, or Linux computers?

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**What are the known issues of using rich media content files?**

Here is a list of known issues:

- For WebEx recording, audio, and video files, when you select Pause, the recording does not always pause at exactly the same place on all attendee computers.

- If you mute the audio in a UCF file, you also mute audio for all applications on your computer, except on Windows Vista.
• If you share a presentation that contains UCF files on a computer that has Microsoft Office XP SP1 or SP2, and you have the Office XP macro security level set to "High" or "Medium", you will not be able to import the PowerPoint presentation into a WebEx session.

• If you have problems viewing ASF files on computers with Windows Media Player 9, upgrade to the latest version of Windows Media Player 9.

• Sharing QuickTime movies using the URL method requires QuickTime 6 or later.

• Animated images in GIF or PNG format display only the first image of the animation.

• Some types of images in StarOffice presentations may not appear.

• In PowerPoint, if you animate text by word or letter, a 10% delay occurs between words or letters, regardless of the value that you set.

• In PowerPoint, if you choose the "Group text by paragraph" option, paragraph animations may appear out of order.

• The PowerPoint chart animation "Group chart by unit" option is not supported.

• UCF does not support dimming general shapes such as charts, clip art pictures, 3D models, tables, WordArt pictures, diagrams, and OLE objects.

• For general shapes, UCF does not support color change animations.

• The PowerPoint animation options for "Repeat until end of slide" and "Repeat until next click" are not supported when you share presentations.

• If you share a presentation that was created using PowerPoint XP or later on a computer that is running PowerPoint 2000, the first slide's master is used for all slides even if the slides have different masters.

• The quality of certain high resolution images in UCF media files may be degraded when you share presentations.

• Shadows set with the PowerPoint Shadows Settings toolbar do not display during meetings, however shadows created with the default shadow settings do appear.

• The following motion effects do not function as they do in PowerPoint slide show mode: Bounce Left, Bounce Right, Curved Square, and Stairs Down.

• In presentations created using PowerPoint versions prior to PowerPoint 2003, transparent portions of some images may be displayed as solid white regions.

• Animations in master slides are not supported.

• The PowerPoint "Change font animation" feature is not supported.

• Adobe Acrobat PDF custom fonts do not display; a default font displays instead.

• Fonts that are embedded into PowerPoint presentations are only displayed properly if the same font is installed on the presenter's computer; otherwise the default font displays instead.

• WebEx Meeting Manager performance on a participant's computer can be impacted by playing Flash files during a session.

• You cannot pause or stop interactive Flash files.

Can I use UCF files on Macintosh, Solaris, or Linux computers?

See Table 1: Supported File Types, on page 45.