



Blackboard

## Ultra Experience - Best Practices for Managing Bandwidth when Application Sharing

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**Product:** Collaborate - Ultra Experience

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**Document Summary:**

### Summary

This article provides advice on how to best manage your bandwidth when using the Application Sharing feature in Collaborate with the Ultra experience with a latent network or a low bandwidth upload/download speed.

When Collaborate with the Ultra experience detects that a users network can no longer support application sharing upload/download, application sharing will be shut off and no longer viewable. Moderators and Presenters who use these best practices will send less data, less frequently to the participants in a class and by doing so optimize the participant experience.

**Document Details:**

### Best Practice One

Turn off your video camera. Generally participants should be focused on the application sharing window and not video. Turning off the video feed will significantly decrease the amount of data being sent by the moderator and received by the participant.

### Best Practice Two

Ensure good internet connectivity. Application Sharing uses a lot of bandwidth. Be sure you have a robust Internet connection, either a fast LAN connection or excellent Wi-Fi signal strength are key. However, if at all possible plugging in directly to the router with an ethernet cable is preferable to using Wi-Fi.

### Best Practice Three

Sharing the entire desktop uses the most bandwidth, due to the larger screen area being shared. If possible choose to application share only a particular application, for example the browser or Word. Then reduce the size of the application's window to the smallest size that is still practical for the presentation.

### Best Practice Four

The more motion and visual changes made in the application sharing window, the more bandwidth you will use. While seeing motion is part of what makes application sharing a wonderful tool, try to cut out any excessive motion that isn't needed for the class, for example "cute" animations. Additionally, it is inadvisable to application share videos as no audio will be heard and the video may take up enough bandwidth to downgrade a participant so that they no longer see application sharing.

## **Best Practice Five**

When switching between applications, ensure participants are able to see changes before continuing with the lecture. The more drastic the change the more data will need to be transmitted.