

Elluminate Feature Report

Feature Name: Object Oriented and Active Whiteboard

Customer Need

Synchronous collaboration environments provide a workspace, or whiteboard, that can be used to display visual content such as presentations and images.

Session moderators and instructional designers require the capability to create rich dynamic content that engages participants. While presentations are fine for some users, many more require the ability to create and edit dynamic content directly in the environment in which it will be delivered to participants. Moreover, presenters wish to allow participants to interact with the content to create an ideal learning environment.

Solution

The Elluminate *Live!* whiteboard is a powerful environment that provides moderators the ability to create multiple whiteboard screens, load content directly from presentations and images, and provides a wide array of drawing and writing tools that are accessible to all attendees at any time during the session. The Elluminate *Live!* whiteboard provides a working area of up to 1600x1600 pixels, per screen, and includes tools such as a pen, line, highlighter, ellipse, rectangle and text.

The Elluminate whiteboard is **object oriented** which means that all of the objects created are dynamic, and can be edited, repositioned, resized and reconfigured at will. Multiple objects may be grouped and operated upon as if they were a single object, such as collecting pen strokes into words and paragraphs. All participants, with whiteboard privileges, may simultaneously interact on the whiteboard. Moreover the Elluminate whiteboard allows active content by allowing clickable URLs and a full text editor.

Figure 1: The Elluminate *Live!* Whiteboard



Specifics of Object Oriented Whiteboard

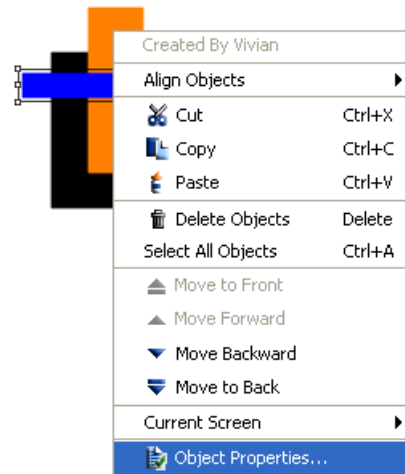
There are many features on Elluminate *Live!* object oriented whiteboard.

1. **Tools:** The Elluminate *Live!* whiteboard provides tools such as a pen, line, highlighter, ellipse, rectangle and text. When a user writes or draws on the whiteboard, objects are



created. The Elluminate *Live!* whiteboard maintains the order in which the objects are placed on the whiteboard, by all participants who are writing on it.

2. **Dynamic Objects:** In addition to drawing and writing tools, the whiteboard includes a Selection Tool which allows users to access several object oriented related functions. Single or multiple objects on the current whiteboard can be selected at any time. Once selected, users may:
 - Change properties such as size and position
 - Change the color and transparency
 - Cut, Copy, Paste and Delete objects from one whiteboard to another. Currently there is no “undo” key on the whiteboard so users must ensure that they are deleting the correct content prior to committing the change.
 - Group or ungroup objects on the whiteboard. Grouping objects allows the user to edit multiple objects simultaneously
 - Layer objects by moving them forward or backward or directly to the front or back of the whiteboard
 - Align objects both horizontally and vertically by their centers or left/right/top/bottom edge
 - Distribute objects horizontally and vertically by their centers, or space them equally in the order in which they are selected
 - Move objects to and from the background, allowing participants to annotate the whiteboard without affecting or deleting background objects. Objects placed in the foreground may be selected and deleted at any time. The ability to move objects to the background and foreground is only available to moderators.
 - Objects are unique to users, so moderators can easily identify which user placed an object on the whiteboard
3. **Active Content:** Attendees are able to type fully formatted URLs using the text tool or the text editor. This allows each user to be able to launch a browser to that web page. Similarly users can click on a link to open an email message with an active email address.
4. **Access:** Access to the whiteboard is controlled by privileges defined by the moderator. All users with whiteboard privileges can use any of the writing and drawing tools on the whiteboard at any time and make changes to the objects already on the whiteboard. Moderators may view a participant’s level of activity on the whiteboard through a series of indicator lights.
5. **Shared:** The moderator can create multiple screens on which to work. This allows users to interact on the whiteboard at the same time. In fact, the same whiteboard or multiple whiteboards can be viewed and modified simultaneously by participants.
6. **Persistent Content:** Multiple whiteboard screens can be created at any time during the session. Since all whiteboard content created is persistent, changes and additions to a whiteboard screen remain in place even when users move to another screen and return. Whiteboard content may be saved to whiteboard files, to be reloaded at a later time, and may be saved to PDF files, PNG files or printed.



Contact Information

For more information about the whiteboard, visit <http://www.lluminate.com/training>.