

## TEST PLAN:

### MOODLE INTEGRATED SYNCHRONOUS TEACHING AND CONFERENCING (MIST/C)

#### “FULL FEATURE TEST”

<b>Purpose:</b> Verify that the elements of MISTC are functional. <b>Special Instructions:</b>		<i>Last updated: 1/24/2013 3:00:20 PM</i>
<b>Test Run Information:</b> <b>Tester Name:</b> <b>Date(s) of Test:</b>	<b>Prerequisites for this test:</b>	
	<b>Software Versions:</b> <b>Operating System(s):</b>	
	<b>Required Configuration:</b>	
<b>NOTES and RESULTS:</b>		

**\*Yellow marked items are essential to the overall performance of MIST/C. Test these items and ensure that they work properly. Testing these items will satisfy for a “Quick Test” of MIST/C.**

STEP	TEST STEP/INPUT	EXPECTED RESULTS	NOTES	(P)ass/(F)ail		
				W	M	L
<b>Client</b>						
1.	When the user first loads MIST/C and clicks the “About” button, the correct version and patch number should be shown.	As of <u>      (mm/dd/yyyy)      </u> the correct version and patch number should be: <b>WINDOWS: v</b> <u>      #      </u> <b>and patch</b> <u>      #      </u> <b>MAC OS: v</b> <u>      #      </u> <b>and patch</b> <u>      #      </u> <b>LINUX: v</b> <u>      #      </u> <b>and patch</b> <u>      #      </u>				
2.	When you close the master client by clicking the "Quit All" button	All open windows associated with MIST/C should close.				
3.	When MIST/C is first installed	There should be a MISTDATA directory within the documents folder after downloading and installing MISTC. This APPDATA, CONVERT INFO, LOGS, RECORDINGS, directory should contain the following folders: SLIDES, TEMP, WBDSNAPS.				
4.	There should be an "OFFLINE.nwm" file in the "MISTCDATA" directory underneath the Documents folder on the computer. If there is:	A user can double click this and MIST/C control and whiteboard should load with all the tools available, Indicating it's offline (except in Linux, where user must place the file in MISTCDATA/RECORDINGS/OFFLINE and start MIST/C from command line).				

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5.	Upon starting the client in either OFFLINE or LIVE modes	There should be a log file of each session located in MISTCDATA\LOGS (ex 2012May10-124930.log)				
<b>Floor Control</b>						
1.	When one or more users lose connection with the course	MIST/C will display the message "Lost Server Connection" until connection is restored. At this point, a message will say "Server Connection Restored" and user will have regained all normal functions. Only the user who lost connection will be affected.				
2.	When a student is disconnected from the course for less than five minutes.	MIST/C should auto-reconnect with no problems.				
3.	When a student is disconnect from the course for five minutes or more.	MIST/C should not auto-reconnect; popup will indicate to restart MIST/C.				
4.	When an instructor is disconnected from the course for less than three hours.	MIST/C should auto-reconnect with no problems.				
5.	When an instructor is disconnect from the course for three hours or more.	They should not be able to reconnect and will be told to restart MIST/C.				
6.	User should be able to request the floor (unless using OFFLINE). May vary by scenario in which the instructor and only the instructor has the ability to control. They are: 1.) Always 2.) Never 3.) Ask me	1.) Any user can take the floor without approval. 2.) No user other than the instructor can take the floor. 3.) No user other than the instructor can take the floor without approval from the instructor.				
7.	When a user requests the floor and they need permission from the instructor, the instructor should be able to grant the student access by	Clicking "Grant Next", which will grant the floor to the next person waiting. Or Clicking on the students name in the participants panel. If they are waiting, their name should appear in pink.				
8.	When the instructor gives up the floor to a student by clicking "Grant Next", or when the floor mode is "Always" and a student takes the floor from the Instructor	When the student gives up the floor, it automatically goes back to the instructor.				
9.	When any user logs out of the system while class is running,	The rest of the class should not be affected. The user will appear in "gray" on the other participants roster view.				
10.	If you are the instructor (not a student with the floor) and you have the floor. If you press "Voting"	A voting box should appear on all the windows of the users in the current group. All functions should work as expected. If you exit the voting, all other voting boxes should disappear from the other				

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		users screens as well				
11.	When a user who has the floor types in a URL in the "Launch URL" text area and presses enter	Every user should see a browser displayed with the corresponding webpage shown. Any user who does NOT have the floor should not be able to launch a URL.				
12.	If you are the instructor (not a student with the floor) and you have the floor. If you press "Breakout"	The breakout panel should appear.				
13.	In breakout mode, if instructor selects "CONFIGURE BREAKOUT"	Instructor is able to place students in numbered groups				
14.	In breakout mode, if instructor selects "GO TO BREAKOUT"	Students can communicate only within numbered groups				
15.	In breakout mode, if instructor take the floor without first joining a group	All students receive audio and whiteboard from instructor but can communicate back only by chat				
16.	If the Professor receives a message from the chat feature	The system will emit a chime to alert the professor of an incoming message from one of the students and an icon "ATTENTION" will appear of lower left corner of whiteboard(s)				
17.	If a user types a message in the "SEND TO PROF" text field, and hits enter	The Professor will see the message appear in their "RECEIVED MESSAGES" box				
18.	If the instructor makes changes to the APPDATA/OFFLINE (or directory representing the current LIVE session being ran) by adding to it APPLOCS.txt and the appropriate application files	When the instructor establishes a connection, their files in the containing folder will be uploaded to the server and zipped into the same directory.				
19.	If the instructor has uploaded application files as noted previously and a receiver establishes a connection to the same LIVE session	MIST/C will begin to download the files that the instructor loaded previously to the server.				
20.	When a user is downloading app data from the server	Their name will appear in red in the Floor control. It will turn black when the download is complete.				
21.	When the Instructor clicks "Download Recording"	A list of previous recordings for the current course should be displayed including size of the files and option to delete them; once selected, downloaded to MISTCDATA/RECORDINGS/*moodle short name* and the delete should work				
22.	When a user attempts to Launch an App while the recorder pop-up message "The Recorder is Waiting to be Started" is displayed	The message "You must clear recorder message before launching application" should appear when the recorder is running and has a popup showing.				

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23.	When the user has the floor and is transmitting audio, if they press the "Stop" button in the upper portion of the Control Panel	Their audio will no longer be transmitted.				
24.	When the user has the floor and is NOT transmitting audio, if they press the "Send" button in the upper portion of the Control Panel	Their audio will be transmitted to other users.				
<b>Play</b>						
1.	When a user double clicks on a .nwr file on their computer or on a Web page (e.g. Moodle page)	MISTC with WBD and Play Control should open with the selected recording in the dropdown menu and play configuration (except in Linux; see above)				
2.	When the user presses the PLAY, PAUSE, STOP, PREV, and NEXT BUTTONS.	Should work as expected.				
3.	The current playing time should be displayed.	Should work as expected.				
4.	The combo box should display all the recordings in the Recordings folder given that the filename is of correct length.	Should work as expected.				
5.	The slider tool should adjust where the user is in the recording.	Should work as expected.				
6.	Elapsed time field should be displayed normally.	Should work as expected.				
7.	When sending audio; if play is started, audio sending should stop; if audio sending is started, play should pause	Should work as expected.				
<b>Record</b>						
1.	RECORD, STOP, and PAUSE BUTTONS should work fine.	Should work as expected.				
2.	When the user is recording	The MIC gain control should be increasing or decreasing level automatically such that the audio level indicator will show a red cell occasionally.				
3.	Elapsed time field should be displayed normally.	Should work as expected.				
4.	When user clicks on record for second time in the same day	Dialog should offer to append to the last file produced earlier in the day.				

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5.	When user clicks on Upload a Recording	Dialog should appear and allow upload to Moodle, which should appear on "Connect to live class/Access recordings" page				
6.	When user clicks stop button (square icon) or click "Quit All" on MIST/C control	Dialog should offer upload of current/latest recording to Moodle, which should appear on "Connect to live class/Access recordings" page				
<b>Whiteboard</b>						
1.	When the user first loads MIST/C and clicks the "About WBD" button, the correct version and patch number should be shown.	As of <u>      (mm/dd/yyyy)      </u> the correct version and patch number should be: <b>WINDOWS: v</b> <u>      #      </u> <b>and patch</b> <u>      #      </u> <b>MAC OS: v</b> <u>      #      </u> <b>and patch</b> <u>      #      </u> <b>LINUX: v</b> <u>      #      </u> <b>and patch</b> <u>      #      </u>				
2.	When the user toggles the following tools: <ul style="list-style-type: none"> <li>• WBD</li> <li>• Projctr</li> <li>• Play</li> <li>• Record</li> <li>• FC</li> </ul>	The appropriate tool should open and display in the client window while the selected tool button is "pink".  The appropriate tool should not open and display in the client window if the corresponding tool button is "gray".  Projector should take on StandupWhiteboard role when so configured in .nwm file.				
3.	When a user opens MIST/C	The Whiteboard should be loaded and should expand to full screen. If user reduces its size, it should stay at size user set until restarted.				
4.	If and only if the user has the floor or is in OFFLINE mode, the user should be able to annotate on the whiteboard using the following annotation tools: <ul style="list-style-type: none"> <li>• Text</li> <li>• Line</li> <li>• Arrow</li> <li>• Box</li> <li>• Circle</li> <li>• Pen</li> </ul>	The user should be able to see their annotations on the board. If it's during a class and the user has the floor, everyone else within their group should see the annotations as well. Annotations should also be configurable by using the "Config" option in the Whiteboard. Unless the user has the floor or is the controller, the whiteboard buttons should not show.				
5.	If the user chooses the "erase" tool	They should be able to select an area on the whiteboard in which all annotations within that area will be erased.				
6.	When import slide is pressed and multi-page pdf is selected	A directory of single page PDF should be generated and the first page displayed. .doc, .txt, or .pdf files should be capable of importing.				
7.	When the Import Slide Button is pressed and a zip file containing the files of supported format is imported,	The directory will be expanded.				

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8.	When the user presses the "Next slide" and "Previous slide" buttons	They should work accordingly.				
9.	When "Window Import" is clicked, and it is set to "Import Window Once" underneath the "Config" option, and the user chooses a window	A print screen of the selected window should be displayed on the Whiteboard. If there are other users in the group, they should see the image as well.				
10.	When "Window Import" is clicked, and it is set to "Import Window Continuous" underneath the "Config" option, and the user chooses a window	A print screen of the selected window should be <u>continuously</u> displayed on the Whiteboard, refreshing every 5 to 10 seconds. If there are other users in the group, they should see the image as well (not available under Linux)				
11.	When the blank page button is clicked, a blank page should be loaded onto the whiteboard.	A blank Whiteboard should appear. If there are other users in the group, their screens should be cleared as well.				
12.	The user clicks the "Go To" page button	They should be able to choose from the list displayed any page that is currently or has previously been loaded onto their whiteboard during that session.				
13.	User attempts to annotate on the WBD	Any user that does not have the floor or isn't currently in OFFLINE mode should not be able to annotate on the WBD. Otherwise, all annotations should be seen on their WBD and the other users in the same group.				
14.	When the user clicks the "Convert Slides" button	OpenOffice or PowerPoint slides should be able to be converted into PDF format, with oversize slides converted to JPEG. These slides should be placed in the folder underneath the MISTCDATA directory called "CONVERT" and the converted slides should appear in SLIDES. OpenOffice should work on all platforms; PowerPoint should work on Windows and Mac, if Microsoft Powerpoint is installed.				
15.	If user chooses to "Export as PDF"	The current WBD screen should be saved as a pdf in the MISTCDATA directory in the folder "WBDSNAPS"				
16.	When annotations are made on one WBD	WBD maintains proper registration of annotation on receivers, including projector, for all screen dimensions of both teaching screen and receiver/projector.				
17.	When user imports JPEG or PNG slide	Registration of annotations should be correct in all four combinations resulting from: sender image full screen or with white border all sides, combined with receiver image full screen or with white border all sides				

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18.	When a slide is displayed	WBD slide names show properly on projector.				
19.	When WBD is restarted from function buttons and user has the floor	WBD buttons appear properly for a floor holder.				
20.	On Windows and Mac, the WBD Conf button provides the option for "Import Window Once" and "Import Window Continuous".	These capture upper left 1024x768 of primary screen.				
21.	When the floor holder receives a chime from a notification such as an incoming message	An icon with the word "ATTENTION" will appear at the bottom of the WBD.				
22.	While traversing through slides in the WBD, if a PDF file is too large (i.e larger than 131,072 bytes or 128 kb)	The WBD will display a message saying that it will convert it to a jpg and it will convert it to a jpg.				
23.	When the user manually adjusts their WBD size,	The slides that appear on them should adjust to the size of the WBD.				
<b>MOODLE</b>						
1.	Once logged into Moodle and you arrive to the "Connect to Class" screen	the number of connected students and non-students should be displayed.				
2.	After logging in as an instructor, click on "Modify room client configuration" on the "Connect to Class" screen. If you change the value of standupWhiteboard to 0 and you have a second screen or projector displayed from your computer	The projector feature should be activated the next time you load MIST/C. You should be able to toggle the projector on and off.				
3.	After logging in as an instructor, click on "Modify room client configuration" on the "Connect to Class" screen. If you change the value of standupWhiteboard to 1 and you have a second screen or projector displayed from your computer	The swap feature should be activated the next time you load MIST/C. By toggling this button, you can swap the Control panel and the WBD between screens. The Control panel should appear on one screen while the WBD is on another.				
<b>BREAKOUT</b>						
1.	When server and client are configured for Breakout and a controller takes the floor	Breakout button appears under Request Floor				
2.	When Breakout button is clicked	Breakout Panel appears at top right of screen and group numbers appear at left of names in floor grid for all users assigned to groups 1 to 9 but floor control behavior does not change				
3.	When GO TO BREAKOUT GROUPS is clicked on Breakout Panel, with more than one group and more than one user	Users are partitioned into communication by group number; taking the floor in a group results in receiving audio and graphics from floor holder by				

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	per group	others in group and nobody else; each group can have its own floor holder independently; any users can take the floor; the System Messages panel indicates its user's group				
4.	When RETURN TO FULL CLASS is clicked on Breakout Panel	Floor control returns to normal state, but with group numbers at left of names in floor grid				
5.	When Configure Breakout is clicked on Breakout Panel	Configuration Panel appears below Breakout Panel, showing names of all users in Moodle Room database				
6.	When Exit is clicked on Breakout Panel	Breakout and Configuration panels disappear but group numbers remain left of floor grid names				
7.	When JOIN GROUP is clicked on Breakout Panel, followed by a group number	First "click group to join" shows; then when group is clicked the controller becomes as one of the group; controller does not have floor initially and the process does not take away floor from holder in the group				
8.	When SEND TO ALL is clicked on Breakout Panel	Controller is removed from the group; if controller had floor, control of floor passes to nobody; now if controller clicks Request Floor the floor in all groups goes to the controller; audio and graphics from controller go to all users but users cannot reply; when controller clicks Release Floor, nobody has the floor in a group				
9.	When number of groups is changed in Configuration Panel and SET NUMBER OF GROUPS is clicked	Number of group buttons on Breakout Panel matches input; if number of groups was reduced, any user in a group higher than number of groups has group set to zero				
10	When a user button is clicked on Configuration Panel followed by clicking number on Breakout Panel	The user's group as shown on Configuration Panel and Floor Control grid is set to the number clicked				