

## FTP Client Test Plan

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Test Plan Details:

- A. Identification Number, Descriptive title
- B. Instructions
- C. Expected Results

No.	User Case	Test Plan
1.	Connect to remote server	<p><b>Functionality:</b></p> <ul style="list-style-type: none"><li>A. Connect 001, Connect to server</li><li>B. Click “Connections” in menu and select new connection. Then click ok.</li><li>C. A remote connection will be displayed in the GUI next to the local connection.</li></ul> <p>Severity: Critical</p> <p><b>Equivalence:</b></p> <ul style="list-style-type: none"><li>A. Connect 002, Connect to multiple remote servers</li><li>B. Click “Connections” in menu and select new connection. Click ok. Click “Connections” in menu and select new connection again. Click ok.</li><li>C. Two different remote connections will be displayed in tabs in the GUI.</li></ul> <p>Severity: Critical</p> <ul style="list-style-type: none"><li>A. Connect 003, Using invalid IP Address</li><li>B. Click “Connections” in menu and select new connection. Change the IP address to something invalid. Click ok.</li><li>C. “Opening control socket error” dialog pops up.</li></ul> <p>Severity: Critical</p> <ul style="list-style-type: none"><li>A. Connect 004, Using wrong port</li><li>B. Click “Connections” in menu and select new connection. Change the port number to something invalid. Click ok.</li><li>C. “Opening control socket error” dialog pops up.</li></ul> <p>Severity: Critical</p> <ul style="list-style-type: none"><li>A. Connect 005, Open a connection that has a server nickname that currently exists.</li></ul>

		<p>B. Click “Connections” in menu and select new connection. Change the port number to something invalid. Click ok.</p> <p>C. “Non unique name” dialog pops up.</p> <p>Severity: Important</p> <p>A. Connect 006, Invalid ID</p> <p>B. Click “Connections” in menu and select new connection. Type in wrong ID. Click ok.</p> <p>C. “Failed to log in” dialog pops up.</p> <p>Severity: Critical</p> <p>A. Connect 007, Invalid password</p> <p>B. Click “Connections” in menu and select new connection. Type in wrong password. Click ok.</p> <p>C. “Failed to log in” dialog pops up.</p> <p>Severity: Critical</p> <p>A. Connect 008, Connect using console</p> <p>B. Select help in menu and select “Open Debug Window”. Type in “connect ip port username password”.</p> <p>C. A connection will be displayed in the GUI.</p> <p>Severity: Important</p> <p><b>Boundary Value:</b></p> <p>A. Connect 009, No connection to remote server</p> <p>B. Launch the application.</p> <p>C. It should already be connected to a local connection.</p> <p>Severity: Critical</p>
2.	Close connection to a remote server	<p><b>Functionality:</b></p> <p>A. Close 001, Close connection</p> <p>B. Click “Disconnect”.</p> <p>C. Connection will disappear from GUI and tab disappears.</p> <p>Severity: Critical</p> <p><b>Equivalence:</b></p> <p>A. Close 002, Close one of multiple connections</p> <p>B. Click “Disconnect” button in diagram.</p> <p>C. Connections that you choosed should be shut down, and the others should be remained.</p> <p>Severity: Critical</p> <p>A. Close 003, Close multiple connections</p> <p>B. Click “Disconnect connections” in menu.</p> <p>C. Connections that you wanted closed should have been able to be selected and it disappears.</p>

		<p>Severity: Critical</p> <ul style="list-style-type: none"> <li>A. Close 004, disconnect using console</li> <li>B. Select help in menu and select open debug window. Type in quotations “disconnect”.</li> <li>C. Connection should close.</li> </ul> <p>Severity: Important</p> <p><b>Boundary Value:</b></p> <ul style="list-style-type: none"> <li>A. Close 005, No connections to disconnect.</li> <li>B. Click “Disconnect connections” in menu.</li> <li>C. Nothing occurs.</li> </ul> <p>Severity: Workaround</p> <ul style="list-style-type: none"> <li>D. Close 006, Close all connections</li> <li>E. Click “Disconnection connections” in menu.</li> <li>F. All connection tabs disappear.</li> </ul> <p>Severity: Critical</p>
3.	Go into a folder (Navigate)	<p><b>Functionality:</b></p> <ul style="list-style-type: none"> <li>A. Go 001, Go into a folder</li> <li>B. Double click on the folder.</li> <li>C. The current panel is updated to show the files and folders in the selected directory.</li> </ul> <p>Severity: Critical</p> <p><b>Equivalence:</b></p> <ul style="list-style-type: none"> <li>A. Go 002, Go into previously viewed folder</li> <li>B. Click on the forward (-&gt;) button.</li> <li>C. The current panel is updated with the last child directory that was viewed.</li> </ul> <p>Severity: Critical</p> <p><b>Boundary Value:</b></p> <ul style="list-style-type: none"> <li>A. Go 003, Go into empty folder</li> <li>B. Double click on the folder</li> <li>C. The current panel is updated showing no contents there.</li> </ul> <p>Severity: Important</p>
4	Return to parent folder (Navigate)	<p><b>Functionality:</b></p> <ul style="list-style-type: none"> <li>A. Return 001, Return to parent</li> <li>B. Double click on “...” folder.</li> <li>C. Current panel is updated to show the files and folders in the parent directory.</li> </ul> <p>Severity: Critical</p>

		<p><b>Equivalence:</b></p> <ul style="list-style-type: none"> <li>A. Return 002, Return to parent button</li> <li>B. Select (&lt;-) button.</li> <li>C. The current panel is updated to show the files and folders in the parent directory. The forward button (-&gt;) becomes visible.</li> </ul> <p>Severity: Critical</p> <p><b>Boundary:</b></p> <ul style="list-style-type: none"> <li>A. Return 003, Return to parent folder when in root folder</li> <li>B. Double click on “...” folder when user is already in root folder</li> <li>C. Current panel stays on root folder with same contents.</li> </ul> <p>Severity: Important</p>
5.	<b>Download a file from an open connection</b>	<p><b>Functionality:</b></p> <ul style="list-style-type: none"> <li>A. Download 001, Download option 1</li> <li>B. Right click on a file and select “download”.</li> <li>C. A list of options are shown for the file. The user is prompted where to download the file they have selected. The file starts the download and a program bar is shown about the file’s download.</li> </ul> <p>Severity: Critical</p> <p><b>Equivalence:</b></p> <ul style="list-style-type: none"> <li>A. Download 002, Download from remote to local directory option 2</li> <li>B. Click and drag the selected file from the remote directory browser to the local directory browser.</li> <li>C. The file starts the download and a progress bar is shown about the file’s download.</li> </ul> <p>Severity: Critical</p> <ul style="list-style-type: none"> <li>A. Download 003, Download using console</li> <li>B. Select help in menu and select “Open Debug Window”. Type in quotations “download remotePath localPath filesize”.</li> <li>C. The file starts the download and a progress bar is shown about the file’s download.</li> </ul> <p>Severity: Important</p> <p><b>Boundary:</b></p> <ul style="list-style-type: none"> <li>A. Download 004, Download multiple files at the same time option 1</li> <li>B. Right click on a file and select “Download”, perform this</li> </ul>

		<p>action on multiple files in a short time span.</p> <p>C. A list of options are shown for the file. The user is prompted where to download the file they have selected. The file starts the download and a program bar is shown about the file's download. The action is performed on multiple files in a short time span.</p> <p>Severity: Critical</p> <p>A. Download 005, Download multiple files at the same time option 2</p> <p>B. Click and drag multiple selected files from the remote directory browser to the local directory browser</p> <p>C. A progress bar is shown about the current file's download.</p> <p>Severity: Critical</p>
6.	Upload a file from an open connection	<p><b>Functionality:</b></p> <p>A. Upload 001, upload</p> <p>B. Right click a file in the local directory. Select upload. The user selects which remote server to upload to. The user selects where the file will be uploaded to and confirms.</p> <p>C. A list of options are shown where the user can choose where to upload to. The file starts to be uploaded and a progress bar is shown about the file's upload.</p> <p>Severity: Critical</p> <p><b>Equivalence:</b></p> <p>A. Upload 002, upload option 2</p> <p>B. Click and drag the selected file from the local directory browser to the remote directory browser.</p> <p>C. The file is sent to the remote directory.</p> <p>Severity: Critical</p> <p>A. Upload 003, upload using console</p> <p>B. Click help in menu and select open debug window. Type in quotations "upload remote path localpath".</p> <p>C. The file is sent to the remote directory.</p> <p>Severity: Important</p> <p><b>Boundary:</b></p> <p>A. Upload 004, upload multiple files at the same time option 1</p> <p>B. Right click a file in the local directory. Select upload. The user selects which remote server to upload to. The user selects where the file will be uploaded to and confirms. The action is performed on multiple files in a short time span</p>

		<p>C. A list of options are shown where the user can choose where to upload to. The file starts to be uploaded and a progress bar is shown about the file's upload. User is prompted to select uploading destination for multiple times in a short time span</p> <p>Severity: Critical</p> <p>A. Upload 005, upload multiple files at the same time option 2</p> <p>B. Click and drag the multiple selected file from the local directory browser to the remote directory browser. Multiple files should be selected within one upload session</p> <p>C. Multiple files are sent to the remote directory</p> <p>Severity: Important</p>
7.	Save connection details (ip, port, give nickname)	<p><b>Functionality:</b></p> <p>A. Save 001, Save connection details</p> <p>B. Click file and select "Save Open Connections".</p> <p>C. Connections are saved and can be loaded in "Edit Saved Connections".</p> <p>Severity: Important</p> <p><b>Equivalence</b></p> <p>A. Save 002, save connection details alternative.</p> <p>B. Click on file and select new connection details. The user modifies information and ticks "Save". Click ok.</p> <p>C. The information is saved.</p> <p>Severity: Important</p> <p><b>Boundary</b></p> <p>A. Save 003, save invalid connection details</p> <p>B. Modify connection details to make it invalid.</p> <p>C. Refer to Connect 001 to Connect 008 for output.</p> <p>Severity: Important</p>
8.	Editing saved connection details	<p><b>Functionality:</b></p> <p>A. Edit connection 001, Edit saved connection details</p> <p>B. Click on "file". Select "edit saved connections". User selects the saved connection they would like to modify. The user modifies the information and clicks save.</p> <p>C. A list of saved connections are shown. A new dialog opens up similar to starting a new connection. The information is saved and the saved connections dialog is updated.</p> <p>Severity: Important</p> <p><b>Equivalence:</b></p>

		<p>A. Edit connection 002, No changes</p> <p>B. Click on “file”. Select “edit saved connections”. User does not modify any information and clicks “save”.</p> <p>C. A list of saved connections are shown. A new dialog opens up similar to starting a new connection. The information remains the unchanged.</p> <p><b>Boundary:</b></p> <p>A. Edit connection 003, invalid connection given</p> <p>B. User edits the connection into something invalid like wrong ip address or wrong username.</p> <p>C. Refer to Connect 001 to Connect 008 for output.</p> <p>Severity: Important</p>
9.	Loading connection details	<p><b>Functionality:</b></p> <p>A. Load connection 001, load connection details</p> <p>B. Click on file and select “edit saved connections”. Then, click on a connection and click load.</p> <p>C. The connection should be loaded in the GUI.</p> <p>Severity: Important</p> <p><b>Boundary:</b></p> <p>A. Load connection 003, no previously saved details</p> <p>B. Click on file and select “edit saved connections”. Select load button.</p> <p>C. There should be no changes to the program as there are no connection details to load.</p> <p>Severity: Important</p>
10.	Delete files from remote connection/local machine	<p><b>Functionality:</b></p> <p>A. Delete file 001, delete a file yes</p> <p>B. User right clicks on a desired file and select delete file. The user clicks yes.</p> <p>C. The file is deleted if yes was selected.</p> <p>Severity: Critical</p> <p><b>Equivalence:</b></p> <p>A. Delete file 002, delete a file no</p> <p>B. User right clicks on a desired file and select delete file. The user clicks no.</p> <p>C. No changes were made.</p> <p>Severity: Critical</p> <p><b>Boundary:</b></p> <p>A. Delete file 003, delete multiple files yes</p>

		<p>B. User right clicks on multiple desired files and select delete file. The user clicks yes.</p> <p>C. The multiple selected files are deleted if yes was selected.</p> <p>Severity: Critical</p> <p>A. Delete file 004, delete multiple files no</p> <p>B. User right clicks on multiple desired files and select delete file. The user clicks no.</p> <p>C. No changes were made.</p> <p>Severity: Important</p>
11.	Edit files from remote connection with GUI	<p><b>Functionality:</b></p> <p>A. Edit Files 001, Edit files from remote connection</p> <p>B. User edits the file via GUI in a remote connection and saved.</p> <p>C. File is changed after closing it and reopening it.</p> <p>Severity: Important</p> <p><b>Equivalence:</b></p> <p>A. Edit File 002, Editing multiple files at the same time</p> <p>B. User opens multiple files to be edited at the same time</p> <p>C. File changes are saved.</p> <p>Severity: Important</p> <p><b>Boundary:</b></p> <p>D. Edit Files 003, Edit files and does not save it</p> <p>E. User edits a file and does not save it.</p> <p>F. File should not be changed.</p> <p>Severity: Important</p>
12.	Rename files from remote connection via GUI	<p><b>Functionality:</b></p> <p>A. Rename files 001, Rename a file via GUI</p> <p>B. User renames a file via GUI</p> <p>C. File name is changed</p> <p>Severity: Important</p> <p><b>Equivalence:</b></p> <p>A. Rename files 002, Rename a file with the same name</p> <p>B. User renames a file via GUI to the same name</p> <p>C. File name should not change</p> <p>Severity: Important</p> <p><b>Boundary:</b></p> <p>A. Rename files 003, Rename a file with no name</p>



		<p>B. User renames a file with no input  C. File name should not be accepted  Severity: Important</p>
13	Move files	<p><b>Functionality:</b>  A. Move files 001, Move a file from local machine to connection via GUI  B. User drag and drops a file to the GUI.  C. File should be moved.  Severity: Critical</p> <p><b>Equivalence:</b>  A. Move files 002, Move files and place at the same tab  B. User drags the file and drops it in the same tab.  C. File should not be moved.  Severity: Important</p> <p>A. Move files 003, Move using console  B. User selects help in menu and select open debug window.  User types in quotations “mv oldPath newPath”.  C. File should be moved.  Severity: Important</p> <p><b>Boundary:</b>  A. Move files 004, Move multiple files at the same time  B. User drags multiple files and drops them at the same time.  C. Multiple files should be moved.  Severity: Important</p>
14.	Naming different tabs	<p><b>Functionality:</b>  A. Name tabs 001, Rename different tabs  B. User rename different tabs to another name  C. Name should be changed  Severity: Important</p> <p><b>Equivalence:</b>  A. Name tabs 002, rename tabs with same name  B. User renames at least 2 tabs with the same name  C. Tabs should not be renamed  Severity: Important</p> <p><b>Boundary:</b>  A. Name tabs 003, Rename tabs with empty string  B. Rename a tab with an empty string</p>

		<p>C. Tabs should not be renamed</p> <p>Severity: Important</p>
15.	Automatically log into server I chose	<p><b>Functionality:</b></p> <ul style="list-style-type: none"> <li>A. Auto 001, Automatic log in</li> <li>B. The user logs in.</li> <li>C. The application looks for what saved connections have the “automatic login” check selected. The server automatically logs into the server.</li> </ul> <p>Severity: Important</p> <p><b>Equivalence:</b></p> <ul style="list-style-type: none"> <li>A. Auto 003, none saved connections have the “automatic login” check selected</li> <li>B. The user logs in</li> <li>C. The application looks for what saved connections have the “automatic login” check selected. User has to manually pick one if none saved connections have “automatic login” check selected</li> </ul> <p>Severity: Important</p> <p><b>Boundary:</b></p> <ul style="list-style-type: none"> <li>A. Auto 002, Invalid username or password</li> <li>B. The user logs in with invalid username or password</li> <li>C. A notification shows that invalid username or password. The application will not look for saved connections until the user logs in successfully</li> </ul> <p>Severity: Important</p>
18.	Resume transferring partial files remaining bytes if connections are lost	<p><b>Functionality:</b></p> <ul style="list-style-type: none"> <li>A. Resume 001, Resuming transfer of partial file</li> <li>B. The user transfers a file from one machine to another</li> <li>C. The machine continues transferring the file unless the connection is lost.</li> </ul> <p>Severity: Critical</p> <p><b>Equivalence:</b></p> <ul style="list-style-type: none"> <li>A. Resume 002, Pausing the file transfer</li> <li>B. The user transfers a file from one server to another.</li> <li>C. If connection is lost during the process of transfer, the application pauses the file transfer</li> </ul> <p>Severity: Critical</p> <ul style="list-style-type: none"> <li>A. Resume 003, Resuming transfer of partial file</li> <li>B. The connection is restored</li> <li>C. The program will remain bytes and resume the file transfer</li> </ul>

		<p>Severity: Critical</p> <p><b>Boundary:</b></p> <ul style="list-style-type: none"> <li>A. Resume 004, Stop transferring during the file transfer paused</li> <li>B. Stop transferring file from one machine to another</li> <li>C. Program goes back to the previous page</li> </ul> <p>Severity: Critical</p>
20.	Save the terminal's log of events to a file in case the client crashes for some odd reason	<p><b>Functionality:</b></p> <ul style="list-style-type: none"> <li>A. Save log 001, save an event log</li> <li>B. Close the client</li> <li>C. An event log is saved locally</li> </ul> <p>Severity: Workaround</p> <p><b>Equivalence:</b></p> <ul style="list-style-type: none"> <li>A. Save log 002, error occurs in program</li> <li>B. Cause an error to occur in the program so that it terminates.</li> <li>C. The events are recorded in the log and the log is saved locally</li> </ul> <p>Severity: Workaround</p> <p><b>Boundary:</b></p> <ul style="list-style-type: none"> <li>A. Save log 003, save an event log</li> <li>B. Kill the process of the client from System Monitor</li> <li>C. The events, before the client process is killed, are recorded in the log and the log is saved locally</li> </ul> <p>Severity: Workaround</p>
21.	Interact with the client using a terminal	<p><b>Functionality:</b></p> <ul style="list-style-type: none"> <li>A. Terminal 001, interact using a terminal</li> <li>B. Open a terminal and enter commands</li> <li>C. The corresponding actions are implemented</li> </ul> <p>Severity: Important</p> <p><b>Equivalence:</b></p> <ul style="list-style-type: none"> <li>A. Terminal 002, execute a random supported command</li> <li>B. Enter a random supported command</li> <li>C. The corresponding action is implemented</li> </ul> <p>Severity: Important</p> <p><b>Boundary:</b></p> <ul style="list-style-type: none"> <li>A. Terminal 003, execute all of the supported commands (8 in total)</li> <li>B. Enter all of the 8 supported commands one by one</li> </ul>

		<p>C. The corresponding action is implemented one by one</p> <p>Severity: Important</p>
22.	Display file metadata (size, date changed, etc)	<p><b>Functionality:</b></p> <ul style="list-style-type: none"> <li>A. Display Metadata 001, display metadata</li> <li>B. Open the GUI</li> <li>C. All of the metadata are displayed</li> </ul> <p>Severity: Important</p> <p><b>Equivalence:</b></p> <ul style="list-style-type: none"> <li>A. Display Metadata 002, display metadata in a random directory</li> <li>B. Go to a random directory</li> <li>C. All of the metadata including size and date changed are displayed</li> </ul> <p>Severity: Important</p> <p><b>Boundary:</b></p> <ul style="list-style-type: none"> <li>A. Display Metadata 003, display metadata after file manipulation (don't know if it is clear here)</li> <li>B. Upload a new file</li> <li>C. Metadata for the new file is displayed</li> </ul> <p>Severity: Important</p>
23.	Travel to a directory locally or remotely using console/debug window	<p><b>Functionality:</b></p> <ul style="list-style-type: none"> <li>A. Console 001, command cd locally</li> <li>B. Select Help in menu and select "Open Debug Window". Type in with quotation marks "cd <i>pathname of folder</i>".</li> <li>C. Same output as navigation.</li> </ul> <p>Severity: Important</p> <p><b>Equivalence:</b></p> <ul style="list-style-type: none"> <li>A. Console 002, command cd remotely</li> <li>B. Select Help in menu and select "Open Debug Window". Type in with quotation marks "cd <i>pathname of folder</i>".</li> <li>C. Same output as navigation.</li> </ul> <p>Severity: Workaround</p> <p><b>Boundary:</b></p> <ul style="list-style-type: none"> <li>A. Console 003, invalid command</li> <li>B. Select Help in menu and select "Open Debug Window". Type in with quotation marks "moving <i>pathname</i>".</li> <li>C. Error message with command not found appears.</li> </ul> <p>Severity: Workaround</p> <p>A. Console 004, invalid path</p>

		<p>B. Select Help in menu and select “Open Debug Window”. Type in with quotation marks “<i>cd pathname of folder</i>”.</p> <p>C. Error message appears that mentions it is an invalid path.</p> <p>Severity: Workaround</p>
24.	Queue up files to download in the background	<p><b>Functionality:</b></p> <p>A. Queue 001, download based on queue</p> <p>B. Download multiple files</p> <p>C. File is downloaded one after another in the order of queue</p> <p>Severity: Critical</p> <p><b>Equivalence:</b></p> <p>A. Queue 002, download one after another</p> <p>B. Download multiple files</p> <p>C. Only one file is downloading. The next file waiting to download will not start until the previous one has finished downloading or failed to download.</p> <p>Severity: Critical</p> <p><b>Boundary:</b></p> <p>A. Queue 003, download files until limit achieved</p> <p>B. Downloading files are added to the queue until the maximum number of downloads are achieved.</p> <p>C. No more downloads can be added to the queue after the limit has been achieved.</p> <p>Severity: Important</p>
25.	Set a background download queue limit	<p><b>Functionality:</b></p> <p>A. Queue Limit 001, queue limit</p> <p>B. In connection options in menu, set queue limit to an arbitrary number. Download multiple files until achieve queue limit.</p> <p>C. No more task is able to added to the queue when the limit is achieved.</p> <p>Severity: Critical</p> <p><b>Equivalence:</b></p> <p>A. Queue Limit 002, within queue limit</p> <p>B. Download multiple files, but within queue limit.</p> <p>C. Downloading tasks are able to be added to the queue.</p> <p>Severity: Important</p> <p><b>Boundary:</b></p> <p>A. Queue Limit 003, limit is 0.</p> <p>B. Download multiple files, with queue limit set to 0.</p>

		<p>C. No files should be downloaded. Severity: Important</p>
27.	Limit transfer rates across a connection	<p><b>Functionality:</b></p> <ul style="list-style-type: none"> <li>A. Limit 001, limit transfer rates</li> <li>B. Select connections in menu and select “Connection options”. Type in 10000 in transfer rate max(MB/s) text field. Select ok.</li> <li>C. Transfer rate has been modified. The transfer rate should be relative to other higher or lower transfer rates.</li> </ul> <p>Severity: Important</p> <p><b>Equivalence:</b></p> <ul style="list-style-type: none"> <li>A. Limit 002, limit transfer rates big number</li> <li>B. Select connections in menu and select “Connection options”. Type in 99999. Select ok.</li> <li>C. Transfer rate has been modified. A high transfer rate should transfer the file faster.</li> </ul> <p>Severity: Important</p> <ul style="list-style-type: none"> <li>A. Limit 003, transfer rate non-numeric input</li> <li>B. Select connections in menu and select “Connection options”. Type in abc. Select ok.</li> <li>C. There should be an error message.</li> </ul> <p>Severity: Important</p> <p><b>Boundary:</b></p> <ul style="list-style-type: none"> <li>A. Limit 004, transfer rate 0</li> <li>B. Select connections in menu and select “Connections options”. Type in 0. Select ok.</li> <li>C. There should be an error message.</li> </ul> <p>Severity: Important</p>
28.	Switch tabs or move tabs	<p><b>Functionality:</b></p> <ul style="list-style-type: none"> <li>A. Switch tab 001, switch the desired connection to the other side</li> <li>B. Click the desired connection and click “Switch Tabs” button</li> <li>C. The desired connection option was moved to the other side</li> </ul> <p>Severity: Workaround</p> <p><b>Equivalence:</b></p> <ul style="list-style-type: none"> <li>A. Switch tab 002, switch the connection to the other side without selection</li> <li>B. Click the “Switch Tabs” button directly</li> </ul>

		<p>C. The first connection option was moved to the first position in the other side</p> <p>Severity: Workaround</p> <p><b>Boundary:</b></p> <p>A. Switch tab 003, only one connection option is available to be switch</p> <p>B. Click “Switch Tabs” button</p> <p>C. The connection was moved to the other side, leaving one side empty.</p> <p>Severity: Workaround</p>
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