

## Impact Analysis: Feature - Reload Torrent Button

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**Feature:** When a torrent has been added to I2PSnark, the user cannot modify the data in any way without corrupting the Torrent. A reload button enables the user to hot swap or modify the data without having to go through a complicated process to avoid corruption.

**Testing:** To test the initial process of modifying data files for torrents without the reload feature, we first added a torrent and stopped it partially completed. Next we replaced the data for the torrent with a completed data file. The results are the torrent continuing the download as if the file was unchanged. The same occurs when modifying a file in a complete state with an incomplete file. These tests are similar to those of the re-adding torrent bug but instead of re-adding a torrent, these test for hot swapping data files.

**Estimated Impact:** I2PSnark uses a directory monitor to add torrents to its listing. If we reuse the code from the remove torrent button in SnarkManager but do not remove the actual file, SnarkManager will reload the status of the Torrent. For the buttons, changes to I2PSnarkServlet will be made to produce the code for the graphical button.

SnarkManager.java  
SnarkServlet.java

### **Actual Impact:**

As expected, I2PSnarkServlet was modified to produce the Javascript code for the graphical button. We also added a hook for the button action. For SnarkManager we found repurposing the remove torrent code required us to modify another method in SnarkManager, removeTorrentStatus. This method was refactored to avoid the appearance of a success when it actually failed. Our final changes were packaged in a new method called reloadTorrent and are called when the user clicks the reload button.