

## Impact Analysis: Bug - I2PSnark missing datafile

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**Bug:** When one places a .torrent file within the download folder and the data file is created, if one deletes the data file and then starts the torrent, the program will not re-create the datafile and will instead give an IO error.

**Cause:** When one starts a torrent the program does not attempt to check and correct for a missing data file.

**Estimated impact:**

Snark.java

Storage.java

SnarkManager.java

**Estimated impact:** 3 files

**Actual Impact:**

**Storage.java:** boolean reopen\_check() was created. It does the same thing as another function called reopen() except that instead of throwing an exception when an error is encountered it checks to see if the datafile exists, returning true if it does and false if it doesn't.

**Snark.java:** boolean hasFile() is created which simply calls the reopen\_check() function.

**SnarkManager:** modified the function startTorrent(Byte[] infoHash) so that before it starts a torrent it checks to see if it has the corresponding datafile, if it does not then the torrent is removed from the list and then another torrent is then created and then it recursively calls startTorrent(Byte [] infoHash) on the torrent that was just created.

**Actual impact:** 3 files