

Problem with user impersonation and access rights

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I want to copy files from a given directory 'A', for instance, to 'B'.

Lets consider two users: FIRST, the user that runs the application and have rights to access the directory 'A' but have full rights on 'B' and SECOND that have rights to access the directory 'B' but have full rights on 'A' (the opposite).

Without impersonation, I cannot copy from A to B because the user FIRST doesn't have permission to access A.

If I use LogonUser and ImpersonateLoggedOnUser to impersonate the user SECOND, but I cannot copy because SECOND doesn't have permission to access B.

Well, I could impersonate SECOND, then copy the files to a temporary directory where both users can access, then revert and copy to B.

But I am wondering if there is a more intelligent way, by merging the rights of FIRST and SECOND and copying the files directly in one pass.

Any idea?