

# RE: Preserving permissions in a cross-forest move

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*Source:*

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.migration/2005-06/msg00442.html>

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  - *Date:* Tue, 28 Jun 2005 06:56:52 GMT
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Hello,

Good to hear from you.

According to the message, I understand that you find the FSMT doesn't migrate the permissions of the shared folders in a cross-domain scenario. Is this correct?

Based on your description, I noticed that you manually created new AD accounts in the new environment that matched the names of the accounts in the old environment. Please understand that even the user accounts in the two domains have the same name, they actually have two different security identifiers (SIDs). Permissions are based on SIDs.

In addition, I would like to confirm the settings you choose in the File Server Migration Wizard.

1. If you do not choose to copy security settings from the source to the target files and folders, the wizard applies permissions to the target files, folders, and shared folders by granting Full Control permission to the local Administrators group of the target file server.
2. If you select the Copy security settings option, the File Server Migration Wizard copies all security settings for files, folders, and shared folders, including NTFS file system permissions, auditing, ownership, and shared folder permissions.
3. If you select Copy security settings option, and also select the Resolve invalid security descriptors option, the wizard cleans up security descriptors whose security identifiers (SIDs) cannot be resolved on the target file server.

I suspect that this is the exact scenario on your side. Since the original SIDs are not recognized in the new domain, they are removed. Then the only permissions you see after file migration are the Administrator.

At this time, I would like to suggest that we use a tool called SubInACL to

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replace the original SIDs of the files.

SubInACL is a command-line tool that enables administrators to obtain security information about files, registry keys, and services, and transfer this information from user to user, from local or global group to group, and from domain to domain.

More details can be found from the link below:

SubInACL (SubInACL.exe)

<http://www.microsoft.com/downloads/details.aspx?FamilyID=e8ba3e56-d8fe-4a91-93cf-ed6985e3927b&DisplayLang=en>

As to subinacl, we can use it in this way. You may have a test first.

1. Old domain is win2k called 2kdom
2. New domain in win2k3 called 2k3dom
3. Two way trust between 2kdom and 2k3dom.
4. We have a user called 2kdom\User1 and 2k3dom\User1.
5. A shared file is c:\test on a file server XPTest.  
2kdom\User1 can access c:\test. 2k3dom\User1 cannot access it.

Now we want to replace 2kdom\User1 by using 2k3dom\User1. Please use the following command to change the ACL for NTFS permission:

```
subinacl /file \\XPTest\test /replace=2kdom\User1=2k3dom\User1
```

Change the share permission for c:\test, you need to use:

```
subinacl /share \\XPTest\test /replace=2kdom\User1=2k3dom\User1
```

The file migration steps are as follows:

1. Check that the two-way trusts exist between the win2k and win2k3 domain.
2. Run FSMT again, this time please select Copy security settings option, and deselect Resolve invalid security descriptors option.
3. Check that the security settings exist after file migration.
4. Use SubInACL to replace SIDs.

Hope this helps. If you have further concerns, please get in touch!

Best regards,

Frances He

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◇ *From:* Robert

• ***References:***

- ◆ ***Preserving permissions in a cross-forest move***

◇ *From:* rlooney

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