

Mount options for ADFS

uid=nnn All files in the partition will be owned by user id nnn. Default 0 (root).
gid=nnn All files in the partition will be in group nnn. Default 0 (root).
ownmask=nnn The permission mask for ADFS 'owner' permissions will be nnn. Default 0700.
othmask=nnn The permission mask for ADFS 'other' permissions will be nnn. Default 0077.

Mapping of ADFS permissions to Linux permissions

ADFS permissions consist of the following:

Owner read
Owner write
Other read
Other write

(In older versions, an 'execute' permission did exist, but this does not hold the same meaning as the Linux 'execute' permission and is now obsolete).

The mapping is performed as follows:

Owner read	-> -r--r--r--
Owner write	-> --w--w--w
Owner read and filetype UnixExec	-> ---x--x--x
These are then masked by ownmask, eg 700	-> -rwx-----
Possible owner mode permissions	-> -rwx-----
Other read	-> -r--r--r--
Other write	-> --w--w--w
Other read and filetype UnixExec	-> ---x--x--x
These are then masked by othmask, eg 077	-> ----rwxrwx
Possible other mode permissions	-> ----rwxrwx

Hence, with the default masks, if a file is owner read/write, and not a UnixExec filetype, then the permissions will be:

-rw-----

However, if the masks were ownmask=0770,othmask=0007, then this would be modified to:

-rw-rw----

There is no restriction on what you can do with these masks. You may wish that either read bits give read access to the file for all, but keep the default write protection (ownmask=0755,othmask=0577):

-rw-r--r--

You can therefore tailor the permission translation to whatever you

adfs.txt
desire the permissions should be under Linux.