

The inheritance of ACE at newly created objects.

1) new non-directory file created

flag	placed on a ACE of parent directory							
<i>FILE_INHERIT</i>	x	x	x	x	-	-	-	-
<i>DIRECTORY_INHERIT</i>	x	x	-	-	x	x	-	-
<i>INHERIT_ONLY</i>	x	-	x	-	x	-	-	x
flags placed on ACE of child file	0 (*)				-			failure (**)

2) new directory created

flag	placed on a ACE of parent directory							
<i>FILE_INHERIT</i>	x	x	x	x	-	-	-	-
<i>DIRECTORY_INHERIT</i>	x	x	-	-	x	x	-	-
<i>INHERIT_ONLY</i>	x	-	x	-	x	-	-	x
flags placed on ACE of child directory	<i>FILE_INHERIT</i> + <i>DIRECTORY_INHERIT</i> (*) , (***)		<i>FILE_INHERIT</i> (*)		<i>DIRECTORY_INHERIT</i> (***)		-	failure (**)

- (*) Any non-directory file in any sub-directory will get parent ACE inherited (with all bits in flags cleared).
- (**) If *INHERIT_ONLY* flag is present on an ACE, but neither *DIRECTORY_INHERIT* nor *FILE_INHERIT* is present, then an operation attempting to set such an attribute SHOULD fail with NFS4ERR_ATTRNOTSUPP.
- (***) An ACE should be added to each new directory created. If *INHERIT_ONLY* flag is present on an ACE, then such ACEs only take effect once they are applied (with this bit cleared) to newly created files and directories as specified by the *FILE_INHERIT* and *DIRECTORY_INHERIT* flags. If *DIRECTORY_INHERIT* flag is set in an ACE in an ACL attribute to be set on a non-directory file system object, the operation attempting to set the ACL SHOULD fail with NFS4ERR_ATTRNOTSUPP.