

[MS-FSCC]: File System Control Codes

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Errata below are for Protocol Document Version [V48.0 - 2020/08/26](#)

Errata Published*	Description										
2021/01/25	<p>In Section 2.3 FSCTL Structures, the value for FSCTL_MARK_HANDLE was added to the table.</p> <p>Changed from:</p> <table border="0"> <tr> <td>FSCTL_LMR_SET_LINK_TRACKING_INFORMATION</td> <td>0X1400EC</td> </tr> <tr> <td>FSCTL_OFFLOAD_READ</td> <td>0X94264</td> </tr> </table> <p>Changed to:</p> <table border="0"> <tr> <td>FSCTL_LMR_SET_LINK_TRACKING_INFORMATION</td> <td>0X1400EC</td> </tr> <tr> <td>FSCTL_MARK_HANDLE</td> <td>0x900fc</td> </tr> <tr> <td>FSCTL_OFFLOAD_READ</td> <td>0X94264</td> </tr> </table>	FSCTL_LMR_SET_LINK_TRACKING_INFORMATION	0X1400EC	FSCTL_OFFLOAD_READ	0X94264	FSCTL_LMR_SET_LINK_TRACKING_INFORMATION	0X1400EC	FSCTL_MARK_HANDLE	0x900fc	FSCTL_OFFLOAD_READ	0X94264
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2021/01/11	<p>In the following section updated the processing rules for when the directory is the volume root.</p> <p>Section 2.4.8 FileBothDirectoryInformation Section 2.4.10 FileDirectoryInformation Section 2.4.14 FileFullDirectoryInformation Section 2.4.17 FileIdBothDirectoryInformation Section 2.4.18 FileIdFullDirectoryInformation Section 2.4.19 FileIdGlobalTxDirectoryInformation Section 2.4.26 FileNamesInformation</p> <p>For more details, please see the diff file.</p>										
2020/11/23	<p>In Section 2.6 File Attributes, the following attributes have been added.</p> <p>Changed to:</p> <table border="0"> <tr> <td>Value</td> <td>Meaning</td> </tr> <tr> <td>FILE_ATTRIBUTE_RECALL_ON_OPEN</td> <td>0x00040000</td> </tr> </table> <p>This attribute appears only in directory enumeration classes (FILE_DIRECTORY_INFORMATION, FILE_BOTH_DIR_INFORMATION, etc.). When this attribute is set, it means that the file or directory has no physical representation on the local system; the item is virtual. Opening the</p>	Value	Meaning	FILE_ATTRIBUTE_RECALL_ON_OPEN	0x00040000						
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	<p>item will be more expensive than usual because it will cause at least some of the file or directory content to be fetched from a remote store. This attribute can only be set by kernel-mode components. This attribute is for use with hierarchical storage management software.<162></p> <p>FILE_ATTRIBUTE_PINNED 0x00080000</p> <p>This attribute indicates user intent that the file or directory should be kept fully present locally even when not being actively accessed. This attribute is for use with hierarchical storage management software.<163></p> <p>FILE_ATTRIBUTE_UNPINNED 0x00100000</p> <p>This attribute indicates that the file or directory should not be kept fully present locally except when being actively accessed. This attribute is for use with hierarchical storage management software.<164></p> <p>FILE_ATTRIBUTE_RECALL_ON_DATA_ACCESS 0x00400000</p> <p>When this attribute is set, it means that the file or directory is not fully present locally. For a file this means that not all of its data is on local storage (for example, it may be sparse with some data still in remote storage). For a directory it means that some of the directory contents are being virtualized from another location. Reading the file or enumerating the directory will be more expensive than usual because it will cause at least some of the file or directory content to be fetched from a remote store. Only kernel-mode callers can set this attribute. This attribute is for use with hierarchical storage management software.<165></p> <p><162> Section 2.6: Only NTFS and ReFS support this attribute. <163> Section 2.6: Only NTFS and ReFS support this attribute. <164> Section 2.6: Only NTFS and ReFS support this attribute. <165> Section 2.6: Only NTFS and ReFS support this attribute.</p>
2020/11/23	<p>In Section 2.4.34 FileRenameInformation, the description of STATUS_INVALID_PARAMETER and STATUS_ACCESS_DENIED have been updated.</p> <p>Changed from:</p> <p>STATUS_INVALID_PARAMETER: An invalid parameter was passed for FileName or FileNameLength, or the target file was open, or the RootDirectory field value was nonzero for a network operation.</p> <p>STATUS_ACCESS_DENIED: The handle was not opened with delete access.</p> <p>Changed to:</p> <p>STATUS_INVALID_PARAMETER: An invalid parameter was passed for FileName or FileNameLength, or the RootDirectory field value was nonzero for a network operation.</p> <p>STATUS_ACCESS_DENIED: The handle was not opened with delete access, or the target file was open and ReplaceIfExists is nonzero.</p>

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2020/08/31	<p>In MS-FSCC Section 2.4.34.2 FileRenameInformation for SMB2, the Padding field was added to the end of the packet:</p> <p>Changed from:</p> <p>FileName (variable): A sequence of Unicode characters containing the new name of the file. When working with this field, use FileNameLength to determine the length of the file name rather than assuming the presence of a trailing null delimiter.</p> <p>Changed to:</p> <p>FileName (variable): A sequence of Unicode characters containing the new name of the file. When working with this field, use FileNameLength to determine the length of the file name rather than assuming the presence of a trailing null delimiter.</p> <p>Padding (variable): Length of this field MUST be the number of bytes required to make the size of this structure at least 24. This field MAY be set to 0 and MUST be ignored on receipt.</p>

*Date format: YYYY/MM/DD