

[MS-FSCC]: File System Control Codes

This topic lists the Errata found in the MS-FSCC document since it was last published. Since this topic is updated frequently, we recommend that you subscribe to these RSS or Atom feeds to receive update notifications.



Errata are subject to the same terms as the Open Specifications documentation referenced.

Errata below are for Protocol Document Version [V45.0 – 2018/09/12](#).

Errata Published*	Description						
2019/08/05	In Section 2.3.42, FSCTL_QUERY_FILE_REGIONS Reply, the length of the Region field has been changed from 24 bytes to variable.						
2019/08/05	<p>In Section 2.3.41, FSCTL_QUERY_FILE_REGIONS Request, a new Reserved field has been added to the end of the data element.</p> <p>Added:</p> <p>Reserved (4 bytes): A 32-bit unsigned integer that is reserved. This field SHOULD be 0x00000000 and MUST be ignored.</p>						
2019/08/05	<p>In Section 2.3.41, FSCTL_QUERY_FILE_REGIONS Request, new product behavior notes have been added to FILE_REGION_USAGE_VALID_CACHED_DATA and FILE_REGION_USAGE_VALID_NONCACHED_DATA.</p> <p>Added:</p> <p><30> Section 2.3.41: This region usage flag can only be specified for volumes using the NTFS file system.</p> <p><31> Section 2.3.41: This region usage flag can only be specified for volumes using the ReFS file system.</p> <p>In Section 2.3.42.1, FILE_REGION_INFO, the DesiredUsage field has been changed from:</p> <p>DesiredUsage (4 bytes): A 32-bit unsigned integer that indicates the usage for the given region of the file. The valid values are defined in section 2.3.41.</p> <p>Changed to:</p> <p>DesiredUsage (4 bytes): A 32-bit unsigned integer that indicates the usage for the given region of the file.</p> <table border="1" data-bbox="461 1583 1414 1864"> <thead> <tr> <th data-bbox="461 1583 943 1635">Value</th> <th data-bbox="943 1583 1414 1635">Meaning</th> </tr> </thead> <tbody> <tr> <td data-bbox="461 1635 943 1766">0x00000000</td> <td data-bbox="943 1635 1414 1766">The given range is invalid. It does not match the criteria of the requested DesiredUsage as specified in section 2.3.41.</td> </tr> <tr> <td data-bbox="461 1766 943 1864">FILE_USAGE_VALID_CACHED_DATA 0x00000001</td> <td data-bbox="943 1766 1414 1864">Defines those regions of the file that exists before VDL as it exists in the cache manager.<32></td> </tr> </tbody> </table>	Value	Meaning	0x00000000	The given range is invalid. It does not match the criteria of the requested DesiredUsage as specified in section 2.3.41.	FILE_USAGE_VALID_CACHED_DATA 0x00000001	Defines those regions of the file that exists before VDL as it exists in the cache manager.<32>
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Errata Published*	Description		
	<table border="1" data-bbox="461 275 1414 373"> <tr> <td data-bbox="461 275 943 373">FILE_USAGE_VALID_NONCACHED_DATA 0x00000002</td> <td data-bbox="943 275 1414 373">Defines those regions of the files that exist before VDL on the storage device.<33></td> </tr> </table> <p data-bbox="444 453 1365 506"><32> Section 2.3.42.1: The NTFS file system is the only file system that returns this region usage value.</p> <p data-bbox="444 512 1365 564"><33> Section 2.3.42.1: The ReFS file system is the only file system that returns this region usage value.</p>	FILE_USAGE_VALID_NONCACHED_DATA 0x00000002	Defines those regions of the files that exist before VDL on the storage device.<33>
FILE_USAGE_VALID_NONCACHED_DATA 0x00000002	Defines those regions of the files that exist before VDL on the storage device.<33>		
2018/12/10	<p data-bbox="444 590 1105 617">In Section 2.1.5, Pathname, the following has been removed:</p> <ul data-bbox="444 657 1308 684" style="list-style-type: none"> • Each pathname component MUST be no more than 255 characters in length. <p data-bbox="444 724 1086 751">In Section 2.1.5.2, Filename, the following has been added:</p> <ul data-bbox="444 791 1414 819" style="list-style-type: none"> • A filename MUST be at least one character but no more than 255 characters in length. <p data-bbox="444 858 1130 886">In Section 2.1.5.3, Streamname, the following has been added:</p> <ul data-bbox="444 926 1174 953" style="list-style-type: none"> • A streamname MUST be no more than 255 characters in length. 		
2018/12/10	<p data-bbox="444 976 1382 1029">In Section 2.3.9.2, SMB2_DUPLICATE_EXTENTS_DATA_EX, a new field called Reserved has been added to the packet diagram and the field descriptions.</p> <p data-bbox="444 1068 521 1096">Added:</p> <p data-bbox="444 1136 1260 1163">Reserved (4 bytes): This field SHOULD be set to zero and MUST be ignored.</p>		
2018/11/12	<p data-bbox="444 1186 1321 1213">In the sections listed below, the description of the EaSize field has been changed.</p> <p data-bbox="444 1253 948 1381">Section 2.4.8, FileBothDirectoryInformation Section 2.4.14, FileFullDirectoryInformation Section 2.4.17, FileIdBothDirectoryInformation Section 2.4.18, FileIdFullDirectoryInformation</p> <p data-bbox="444 1421 607 1449">Changed from:</p> <p data-bbox="444 1488 1403 1541">EaSize (4 bytes): A 32 -bit unsigned integer that contains the combined length, in bytes, of the extended attributes (EA) for the file.</p> <p data-bbox="444 1581 578 1608">Changed to:</p> <p data-bbox="444 1648 1406 1755">EaSize (4 bytes): If FILE_ATTRIBUTE_REPARSE_POINT is set in the FileAttributes field, this field MUST contain a reparse tag as specified in section 2.1.2.1. Otherwise, this field is a 32 -bit unsigned integer that contains the combined length, in bytes, of the extended attributes (EA) for the file.,</p>		
2018/11/12	<p data-bbox="444 1780 1208 1808">In Section 2.4, File Information Classes, the following has been added:</p>		

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	<p><78> Section 2.4: The FileIdInformation information class is supported in the NTFS and ReFS file systems in Windows 8 and subsequent and Windows Server 2012 and subsequent.</p> <p>The following new section has been added:</p> <p>Section 2.4.43 FileIdInformation This information class is used to query the volume serial number and fileid information for a file. A FILE_ID_INFORMATION data element, defined as follows, is provided by the server.</p> <table border="1" data-bbox="451 835 1404 1234"> <tr> <td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> <td>1</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> <td>2</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> <td>3</td><td>0</td><td>1</td> </tr> <tr> <td colspan="32">VolumeSerialNumber</td> </tr> <tr> <td colspan="32">...</td> </tr> <tr> <td colspan="32">FileId </td> </tr> <tr> <td colspan="32">...</td> </tr> <tr> <td colspan="32">...</td> </tr> <tr> <td colspan="32">...</td> </tr> </table> <p>VolumeSerialNumber (8 bytes): A 64-bit unsigned integer that contains the serial number of the volume where the file is located. FileId (16 bytes): An opaque 128-bit signed integer that is an identifier of the file. For file systems that support file identifiers that are less than 128 bits, the unsupported portions of this value MUST be set to zero.<121></p> <p>This operation returns a status code as specified in section 2.2. Upon success, the status code returned by the function that processes this file information class is STATUS_SUCCESS. The most common error codes are listed in the following table.</p> <table border="1" data-bbox="462 1480 1412 1661"> <thead> <tr> <th>Error Code</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>STATUS_INFO_LENGTH_MISMATCH 0xC0000004</td> <td>The specified information record length does not match the length that is required for the specified information class.</td> </tr> </tbody> </table>			0	1	2	3	4	5	6	7	8	9	1	0	1	2	3	4	5	6	7	8	9	2	0	1	2	3	4	5	6	7	8	9	3	0	1	VolumeSerialNumber																																...																																FileId																																																															Error Code	Meaning	STATUS_INFO_LENGTH_MISMATCH 0xC0000004	The specified information record length does not match the length that is required for the specified information class.
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*Date format: YYYY/MM/DD