[MS-FSCC]: File System Control Codes

Errata below are for Protocol Document Version V38.0 – 2015/06/30.

Errata Published*	Description
2015/09/28	In Section 2.5.1, FileFsAttributeInformation, two new values have been added to the FileSystemAttributes field (additions below in **bold**): FileSystemAttributes (4 bytes): A 32-bit unsigned integer that contains a bitmask of flags that specify attributes of the specified file system as a combination of the following flags. The value of this field MUST be a bitwise OR of zero or more of the following with the exception that FILE_FILE_COMPRESSION and FILE_VOLUME_IS_COMPRESSED cannot both be set. Any flag values not explicitly mentioned here can be set to any value, and MUST be ignored. <table><tr><td>Value</td><td>Meaning</td></tr><tr><td>FILE_SUPPORTS_USN_JOURNAL 0x02000000</td><td>The file system implements a USN (2) change journal.</td></tr><tr><td>…</td><td>…</td></tr><tr><td>**FILE_SUPPORTS_BLOCK_REFCOUNTING 0x08000000**</td><td>**The file system supports sharing logical clusters between files on the same volume. The file system reallocates on writes to shared clusters. Indicates that FSCTL_DUPLICATE_EXTENTS_TO_FILE is a supported operation.**</td></tr><tr><td>**FILE_SUPPORTS_SPARSE_VDL 0x10000000**</td><td>**The file system tracks whether each cluster of a file contains valid data (either from explicit file writes or automatic zeros) or invalid data (has not yet been written to or zeroed).** **File systems that use Sparse VDL do not store a valid data length (section 2.4.41) and do not require that valid data be contiguous within a file.**</td></tr></table>
2015/08/03	In Section 2.3.7, FSCTL_DUPLICATE_EXTENTS_TO_FILE Request, corrected the name and size of the identifier of the open handle to the source file. Changed from: **FileHandle (8 bytes):** A 64-bit unsigned integer that indicates an open handle to the source file. Changed to: **SourceFileID (16 bytes):** An SMB2_FILEID structure, as specified in [MS-SMB2] section 2.2.14.1, that is an identifier of the open to the source file. Note: The related bit table was also updated to reflect the above changes.

*Date format: YYYY/MM/DD