## [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.

To view a PDF file of the errata for the previous versions of this document, see the following ERRATA Archives:

October 16, 2015 - Download

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Errata below are for Protocol Document Version V51.0 - 2021/06/25.

Errata Published*	Description
2021/12/14	In section 2.1.5.9.34, FSCTL_SET_INTEGRITY_INFORMATION_EX, revised condition tested for InputBuffer.KeepIntegrityStateUnchanged.
	Changed from:  If InputBuffer.KeepIntegrityStateUnchanged != 0, the object store MUST:
	If InputBuffer. KeepIntegrityStateUnchanged != 0, the object store MUST:
	Changed to:  If InputBuffer.KeepIntegrityStateUnchanged == 0, the object store MUST:
	If InputBuffer. KeepIntegrityStateUnchanged == 0, the object store MUST:
2021/12/14	In 2.1.5.9.33, FSCTL_SET_INTEGRITY_INFORMATION, added conditions for selecting the checksum algorithm.

Errata Published*	Description				
	Changed from:				
	If InputBuffer.ChecksumAlgorithm != CHECKSUM_TYPE_UNCHANGED, the object store MUST set Open.Stream.CheckSumAlgorithm to InputBuffer.ChecksumAlgorithm.				
	Changed to:  If InputBuffer.ChecksumAlgorithm != CHECKSUM_TYPE_UNCHANGED, the object store MUST set Open.Stream.CheckSumAlgorithm to CRC32 if the ReFS cluster size is 4KB or CRC64 if the cluster size is 64K.				
2021/12/14	In section 2.1.5.9.34, FSCTL_SET_INTEGRITY_INFORMATION_EX, changed the product behavior note.				
	Changed from: <123> Section 2.1.5.9.34: Only ReFS supports integrity.				
	Changed to: <123> Section 2.1.5.9.34: Only ReFS v3.2 or higher (Windows 10 v1507 operating system or higher) supports integrity.				
2021/12/14	In section 2.3.74, FSCTL_SET_INTEGRITY_INFORMATION Reply, removed the "the file is not empty" from the list of causes for STATUS_INVALID_PARAMETER.				
	Changed from: The input buffer length is less than the size, in bytes, of the FSCTL_SET_INTEGRITY_INFORMATION_BUFFER element; the handle is not to a file or directory; the file is not empty; or the requested ChecksumAlgorithm field is not one of the values listed in the table for the ChecksumAlgorithm field in the FSCTL_SET_INTEGRITY_INFORMATION Request.				
	Changed to: The input buffer length is less than the size, in bytes, of the FSCTL_SET_INTEGRITY_INFORMATION_BUFFER element; the handle is not to a file or directory; or the requested ChecksumAlgorithm field is not one of the values listed in the table for the ChecksumAlgorithm field in the FSCTL_SET_INTEGRITY_INFORMATION Request.				
	In section 2.3.76, FSCTL_SET_INTEGRITY_INFORMATION_EX Reply, removed the "the file is not empty" from the list of causes for STATUS_INVALID_PARAMETER.				
	Changed from: The input buffer length is less than the size, in bytes, of the FSCTL_SET_INTEGRITY_INFORMATION_BUFFER_EX element; the handle is not to a file or directory; the file is not empty; or Version is not equal to 1.				
	Changed to: The input buffer length is less than the size, in bytes, of the FSCTL_SET_INTEGRITY_INFORMATION_BUFFER_EX element; the handle is not to a file or directory; or Version is not equal to 1.				
2021/12/14	In section 2.3.75, FSCTL_SET_INTEGRITY_INFORMATION_EX Request, revised the meaning of EnableIntegrity field values.				
	Changed from:				

Errata Published*	Description				
	Value	Meaning			
	0x00 The file or directory integrity state must not change.				
	0x01	The file or director parameter.	ry integrity state should change based on the EnableIntegrity		
	Changed to:				
	Value	Meaning			
	0x00	The file or director parameter.	ry integrity state should change based on the EnableIntegrity		
	0x01	The file or director	y integrity state must not change.		
2021/12/14	dependency of the checksum calculation on the cluster size.				
	Changed	iroiii.			
	Value		Meaning		
	CHECK	CSUM_TYPE_CRC32	The file or directory is set to provide integrity using CRC32 checksum.		
	CHECK 0x0003	SUM_TYPE_CRC64	The file or directory is set to provide integrity using a CRC64 checksum.		
	Changed to:				
	Value		Meaning		
	CHECK	SUM_TYPE_CRC32	The file or directory is set to provide integrity using CRC32 or CRC64 checksum. If the ReFS cluster size is 4KB, the checksum used is CRC32; otherwise, if the cluster size is 64K, the CRC64 checksum is used.		
	CHECK 0x000	CSUM_TYPE_CRC64 2	The file or directory is set to provide integrity using CRC32 or CRC64 checksum. If the ReFS cluster size is 4KB, the checksum used is CRC32; otherwise, if the cluster size is 64K, the CRC64 checksum is used.		
2021/12/14	In section 2.3.75, FSCTL_SET_INTEGRITY_INFORMATION_EX Request, changed the product behavior note.				
	Changed from: <76> Section 2.3.75: The FSCTL_SET_INTEGRITY_INFORMATION_EX Request message is supported only by the ReFS file system.				

Errata Published*	Description
	Changed to: <76> Section 2.3.75: The FSCTL_SET_INTEGRITY_INFORMATION_EX Request message is supported only by the ReFS file system. v3.2 or higher (Windows 10 v1507 operating system or higher).
2021/12/14	In section 2.3.75, FSCTL_SET_INTEGRITY_INFORMATION_EX Request, changed the product behavior note.
	Changed from: <76> Section 2.3.75: The FSCTL_SET_INTEGRITY_INFORMATION_EX Request message is supported only by the ReFS file system.
	Changed to: <76> Section 2.3.75: The FSCTL_SET_INTEGRITY_INFORMATION_EX Request message is supported only by the ReFS file system. v3.2 or higher (Windows 10 v1507 operating system or higher).

\*Date format: YYYY/MM/DD