

## [MS-CIFS]: Common Internet File System (CIFS) Protocol

This topic lists the Errata found in the MS-CIFS 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 [V29.0 – 2020/03/04](#)

Errata Published*	Description																																								
2020/08/17	<p>In Section 2.2.2.3.4 SET Information Level Codes the table was updated</p> <p>Changed from:</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Code</th> <th>Description</th> <th>Dialect</th> </tr> </thead> <tbody> <tr> <td>SMB_INFO_STANDARD</td> <td>0x0001</td> <td>Set creation, access, and last write timestamps.</td> <td>LANMAN 2.0</td> </tr> <tr> <td>SMB_INFO_SET_EAS</td> <td>0x0002</td> <td>Set a specific list of extended attributes (EAs).</td> <td>LANMAN 2.0</td> </tr> <tr> <td>SMB_SET_FILE_BASIC_INFO</td> <td>0x0101</td> <td>Set 64-bit create, access, write, and change timestamps along with extended file attributes. Not supported for TRANS2_SET_PATH_INFORMATION (section 2.2.6.7).</td> <td>NT LANMAN</td> </tr> <tr> <td>SMB_SET_FILE_DISPOSITION_INFO</td> <td>0x0102</td> <td>Set whether or not the file is marked for deletion. Not supported for TRANS2_SET_PATH_INFORMATION (section 2.2.6.7).</td> <td>NT LANMAN</td> </tr> <tr> <td>SMB_SET_FILE_ALLOCATION_INFO</td> <td>0x0103</td> <td>Set file allocation size. Not supported for TRANS2_SET_PATH_INFORMATION (section 2.2.6.7).</td> <td>NT LANMAN</td> </tr> <tr> <td>SMB_SET_FILE_END_OF_FILE_INFO</td> <td>0x0104</td> <td>Set file EOF offset. Not supported for TRANS2_SET_PATH_INFORMATION (section 2.2.6.7).</td> <td>NT LANMAN</td> </tr> </tbody> </table> <p>Changed to:</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Code</th> <th>Description</th> <th>Dialect</th> </tr> </thead> <tbody> <tr> <td>SMB_INFO_STANDARD</td> <td>0x0001</td> <td>Set creation, access, and last write timestamps.</td> <td>LANMAN2.0</td> </tr> <tr> <td>SMB_INFO_SET_EAS</td> <td>0x0002</td> <td>Set a specific list of extended attributes (EAs).</td> <td>LANMAN2.0</td> </tr> </tbody> </table>	Name	Code	Description	Dialect	SMB_INFO_STANDARD	0x0001	Set creation, access, and last write timestamps.	LANMAN 2.0	SMB_INFO_SET_EAS	0x0002	Set a specific list of extended attributes (EAs).	LANMAN 2.0	SMB_SET_FILE_BASIC_INFO	0x0101	Set 64-bit create, access, write, and change timestamps along with extended file attributes. Not supported for TRANS2_SET_PATH_INFORMATION (section 2.2.6.7).	NT LANMAN	SMB_SET_FILE_DISPOSITION_INFO	0x0102	Set whether or not the file is marked for deletion. Not supported for TRANS2_SET_PATH_INFORMATION (section 2.2.6.7).	NT LANMAN	SMB_SET_FILE_ALLOCATION_INFO	0x0103	Set file allocation size. Not supported for TRANS2_SET_PATH_INFORMATION (section 2.2.6.7).	NT LANMAN	SMB_SET_FILE_END_OF_FILE_INFO	0x0104	Set file EOF offset. Not supported for TRANS2_SET_PATH_INFORMATION (section 2.2.6.7).	NT LANMAN	Name	Code	Description	Dialect	SMB_INFO_STANDARD	0x0001	Set creation, access, and last write timestamps.	LANMAN2.0	SMB_INFO_SET_EAS	0x0002	Set a specific list of extended attributes (EAs).	LANMAN2.0
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<p>In Section 2.2.8.4.3 SMB_SET_FILE_BASIC_INFO, the following was changed from:</p> <p>Changed from:</p> <p>This information level structure is used in TRANS2_SET_PATH_INFORMATION (section 2.2.6.7) requests to set the following information for the file specified in the request.&lt;182&gt;</p> <p>Changed to:</p> <p>This information level structure is used in TRANS2_SET_PATH_INFORMATION (section 2.2.6.7) and TRANS2_SET_FILE_INFORMATION (section 2.2.6.9) requests to set the following information for the file specified in the request.&lt;182&gt;</p> <p>In Section 2.2.8.4.4 SMB_SET_FILE_DISPOSITION_INFO, the following was changed from:</p> <p>Changed from:</p> <p>This information level structure is used in TRANS2_SET_PATH_INFORMATION (section 2.2.6.7) requests to mark or unmark the file specified in the request for deletion.&lt;183&gt;</p> <p>Changed to:</p> <p>This information level structure is used in TRANS2_SET_PATH_INFORMATION (section 2.2.6.7) and TRANS2_SET_FILE_INFORMATION (section 2.2.6.9) requests to mark or unmark the file specified in the request for deletion.&lt;183&gt;</p> <p>In Section 2.2.8.4.5 SMB_SET_FILE_ALLOCATION_INFO, the following was changed from:</p> <p>Changed from:</p> <p>This information level structure is used in TRANS2_SET_PATH_INFORMATION (section 2.2.6.7) requests to set allocation size information for the file specified in the request.&lt;184&gt;</p> <p>Changed to:</p>				

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2020/06/22	<p>In Section 3.1.4.1.1, Command Sequence Requirements, removed SMB_COM_SESSION_SETUP.</p> <p>Changed from:</p> <ul style="list-style-type: none"> <li>• Unless otherwise noted, following a successful Protocol Negotiation an SMB_COM_SESSION_SETUP or SMB_COM_SESSION_SETUP_ANDX (section 2.2.4.53) command MUST be used to establish an SMB session before any other SMB commands are sent. Multiple SMB sessions can be set up per SMB connection.</li> </ul> <p>Changed to:</p> <ul style="list-style-type: none"> <li>• Unless otherwise noted, following a successful Protocol Negotiation an SMB_COM_SESSION_SETUP_ANDX (section 2.2.4.53) command MUST be used to establish an SMB session before any other SMB commands are sent. Multiple SMB sessions can be set up per SMB connection.</li> </ul>
2020/06/22	<p>In Section 2.2.2.3.3, QUERY Information Level Codes, revised description for SMB_QUERY_FILE_ALL_INFO changing SMB_FILE_QUERY_STANDARD_INFO to SMB_QUERY_FILE_STANDARD_INFO &amp; SMB_FILE_EA_INFO to SMB_QUERY_FILE_EA_INFO.</p> <p>Changed from:</p>

SMB_QUERY_FILE_ALL_INFO	0x0107	Query the SMB_QUERY_FILE_BASIC_INFO, SMB_FILE_QUERY_STANDARD_INFO, SMB_FILE_EA_INFO, and SMB_QUERY_FILE_NAME_INFO data as well as access flags, access mode, and alignment information in a single request.	NT LANMAN
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Changed to:

SMB_QUERY_FILE_ALL_INFO	0x0107	Query the SMB_QUERY_FILE_BASIC_INFO, SMB_QUERY_FILE_STANDARD_INFO, SMB_QUERY_FILE_EA_INFO, and SMB_QUERY_FILE_NAME_INFO data as well as access flags, access mode, and alignment information in a single request.	NT LANMAN
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In Section 2.2.4.21, SMB\_CON\_WRITE\_AND\_UNLOCK, revised response field from ByteCountWritten to CountOfBytesWritten.

Changed from:

The write and unlock command has the effect of writing to a range of bytes and then unlocking them. This command is usually associated with an earlier usage of SMB\_COM\_LOCK\_AND\_READ (section 2.2.4.20) on the same range of bytes. The server's response field ByteCountWritten indicates the number of bytes actually written.

Changed to:

The write and unlock command has the effect of writing to a range of bytes and then unlocking them. This command is usually associated with an earlier usage of SMB\_COM\_LOCK\_AND\_READ (section 2.2.4.20) on the same range of bytes. The server's response field CountOfBytesWritten indicates the number of bytes actually written.

In Section 2.2.4.23.2, Response, revised description of DataLength changing SMB\_COM\_SESSION\_SETUP\_AND\_X to SMB\_COM\_SESSION\_SETUP\_ANDX.

Changed from:

DataLength (2 bytes): This field is the number of bytes read and included in the response. The value of this field MUST NOT cause the message to exceed the client's maximum buffer size as specified in MaxBufferSize of the SMB\_COM\_SESSION\_SETUP\_AND\_X (section 2.2.4.53) client request.

Changed to:

DataLength (2 bytes): This field is the number of bytes read and included in the response. The value of this field MUST NOT cause the message to exceed the client's maximum buffer size as specified in MaxBufferSize of the SMB\_COM\_SESSION\_SETUP\_ANDX (section 2.2.4.53) client request.

In Section 2.2.4.33.2, Response, corrected typo – SMB\_COM\_TRANSACTION.

Changed from:

The SMB\_COM\_TRANSACTON response has two possible formats.

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	<p>Changed to: The SMB_COM_TRANSACTION response has two possible formats.</p> <p>In Section 2.2.4.64.1, Request, revised description of FILE_OPEN_BY_FILE_ID changing FileId to FID.</p> <p>Changed from:</p> <table border="1" data-bbox="370 525 1416 661"> <tr> <td data-bbox="370 525 660 661">FILE_OPEN_BY_FILE_ID 0x00002000</td> <td data-bbox="660 525 1416 661">Opens a file based on the FileId. If this option is set, the server MUST fail the request with STATUS_NOT_SUPPORTED in the Status field of the SMB Header in the server response.</td> </tr> </table> <p>Changed to:</p> <table border="1" data-bbox="370 739 1416 875"> <tr> <td data-bbox="370 739 660 875">FILE_OPEN_BY_FILE_ID 0x00002000</td> <td data-bbox="660 739 1416 875">Opens a file based on the FID. If this option is set, the server MUST fail the request with STATUS_NOT_SUPPORTED in the Status field of the SMB Header in the server response.</td> </tr> </table> <p>In Section 2.2.7.1.1, Request, revised description of FILE_OPEN_BY_FILE_ID changing FileId to FID.</p> <p>Changed from:</p> <table border="1" data-bbox="370 1045 1416 1182"> <tr> <td data-bbox="370 1045 660 1182">FILE_OPEN_BY_FILE_ID 0x00002000</td> <td data-bbox="660 1045 1416 1182">Opens a file based on the FileId. If this option is set, the server MUST fail the request with STATUS_NOT_SUPPORTED in the Status field of the SMB Header in the server response.</td> </tr> </table> <p>Changed to:</p> <table border="1" data-bbox="370 1260 1416 1396"> <tr> <td data-bbox="370 1260 660 1396">FILE_OPEN_BY_FILE_ID 0x00002000</td> <td data-bbox="660 1260 1416 1396">Opens a file based on the FID. If this option is set, the server MUST fail the request with STATUS_NOT_SUPPORTED in the Status field of the SMB Header in the server response.</td> </tr> </table> <p>In Section 2.2.8.1.7, SMB_FIND_FILE_BOTH_DIRECTORY_INFO, revised section 2.2.8.1.5 name from SMB_FILE_FULL_DIRECTORY_INFO to SMB_FIND_FILE_FULL_DIRECTORY_INFO.</p> <p>Changed from: This information level structure is used in TRANS2_FIND_FIRST2 (section 2.2.6.2) and TRANS2_FIND_NEXT2 (section 2.2.6.3) responses to return a combination of the SMB_FILE_FULL_DIRECTORY_INFO and SMB_FIND_FILE_NAMES_INFO (section 2.2.8.1.6) data for all files that match the request's search criteria.</p> <p>Changed to: This information level structure is used in TRANS2_FIND_FIRST2 (section 2.2.6.2) and TRANS2_FIND_NEXT2 (section 2.2.6.3) responses to return a combination of the SMB_FIND_FILE_FULL_DIRECTORY_INFO (section 2.2.8.1.5) and SMB_FIND_FILE_NAMES_INFO (section 2.2.8.1.6) data for all files that match the request's search criteria.</p>	FILE_OPEN_BY_FILE_ID 0x00002000	Opens a file based on the FileId. If this option is set, the server MUST fail the request with STATUS_NOT_SUPPORTED in the Status field of the SMB Header in the server response.	FILE_OPEN_BY_FILE_ID 0x00002000	Opens a file based on the FID. If this option is set, the server MUST fail the request with STATUS_NOT_SUPPORTED in the Status field of the SMB Header in the server response.	FILE_OPEN_BY_FILE_ID 0x00002000	Opens a file based on the FileId. If this option is set, the server MUST fail the request with STATUS_NOT_SUPPORTED in the Status field of the SMB Header in the server response.	FILE_OPEN_BY_FILE_ID 0x00002000	Opens a file based on the FID. If this option is set, the server MUST fail the request with STATUS_NOT_SUPPORTED in the Status field of the SMB Header in the server response.
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	<p>In Section 2.2.8.3.10, SMB_QUERY_FILE_ALL_INFO, revised packet names SMB_QUERY_FILE_STANDARD_INFO and SMB_QUERY_FILE_EA_IINFO.</p> <p>Changed from:</p> <p>This information level structure is used in TRANS2_QUERY_PATH_INFORMATION (section 2.2.6.6) and TRANS2_QUERY_FILE_INFORMATION (section 2.2.6.8) responses to return the SMB_QUERY_FILE_BASIC_INFO, SMB_FILE_QUERY_STANDARD_INFO, SMB_FILE_EA_INFO, and SMB_QUERY_FILE_NAME_INFO data as well as access flags, access mode, and alignment information in a single request for the file specified in the request.</p> <p>Changed to:</p> <p>This information level structure is used in TRANS2_QUERY_PATH_INFORMATION (section 2.2.6.6) and TRANS2_QUERY_FILE_INFORMATION (section 2.2.6.8) responses to return the SMB_QUERY_FILE_BASIC_INFO, SMB_QUERY_FILE_STANDARD_INFO, SMB_QUERY_FILE_EA_INFO, and SMB_QUERY_FILE_NAME_INFO data as well as access flags, access mode, and alignment information in a single request for the file specified in the request.</p> <p>In Section 3.2.1.4, Per Tree Connect, revised description of Client.TreeConnect.TreeID changing treeID to TreeID.</p> <p>Changed from:</p> <p>Client.TreeConnect.TreeID: The treeID (TID) that identifies this tree connect as returned by the server in the header of the SMB_COM_TREE_CONNECT Response (section 2.2.4.50.2) or the SMB_COM_TREE_CONNECT_ANDX Response (section 2.2.4.55.2).</p> <p>Changed to:</p> <p>Client.TreeConnect.TreeID: The TreeID (TID) that identifies this tree connect as returned by the server in the header of the SMB_COM_TREE_CONNECT Response (section 2.2.4.50.2) or the SMB_COM_TREE_CONNECT_ANDX Response (section 2.2.4.55.2).</p> <p>In Section 3.2.4.2.4, User Authentication, revised description changing UnicodePasswordLength to UnicodePasswordLen and OEMPasswordLength to OEMPasswordLen.</p> <p>Changed from:</p> <ul style="list-style-type: none"> <li>• If the server supports Unicode (as indicated in Client.Connection.ServerCapabilities) the client MAY send the plaintext password in Unicode. The Unicode password is placed into the UnicodePassword field of the SMB_COM_SESSION_SETUP_ANDX Request as an array of bytes (not a null-terminated string). No alignment padding is used. The UnicodePasswordLength field is set to the length, in bytes, of the Unicode password.</li> <li>• If neither the client nor the server supports Unicode, or the client sends the password in OEM character set format, the password is placed into the OEMPassword field of the SMB_COM_SESSION_SETUP_ANDX Request as an array of bytes (not a null-terminated string). The OEMPasswordLength field is set to the length, in bytes, of the password.</li> </ul> <p>...</p> <p>The LAN Manager (LM) response and the LAN Manager version 2 (LMv2) response are mutually exclusive. The implementation MUST select either the LM or the LMv2 response and send it in the OEMPassword field of the SMB_COM_SESSION_SETUP_ANDX Request as an array of bytes (not a null-terminated string). The OEMPasswordLength field MUST be set to the length in bytes of the LM or LMv2 response.</p> <p>The NT LAN Manager (NTLM) response and the NT LAN Manager version 2 (NTLMv2) response are mutually exclusive. The implementation MUST select either the NTLM or the NTLMv2 response and send it in the UnicodePassword field of the SMB_COM_SESSION_SETUP_ANDX Request as an array of bytes (not a null-terminated string). The UnicodePasswordLength field MUST be set to the length, in bytes of the NTLM or NTLMv2 response.</p>

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	<p>In Section 3.3.5.24, Receiving an SMB_COM_READ_RAW, revised description changing BytesToReturn to MaxCountOfBytesToReturn.</p> <p>Changed from:</p> <ul style="list-style-type: none"> <li>• The server MUST attempt to read from the underlying object store for the file indicated by the FID in the response. It MUST start reading from the file at the offset indicated by the Offset field in the request, or by the combination of Offset and OffsetHigh if CAP_LARGE_FILES was negotiated. The client MUST read BytesToReturn bytes or until EOF, whichever comes first.</li> </ul> <p>Changed to:</p> <ul style="list-style-type: none"> <li>• The server MUST attempt to read from the underlying object store for the file indicated by the FID in the response. It MUST start reading from the file at the offset indicated by the Offset field in the request, or by the combination of Offset and OffsetHigh if CAP_LARGE_FILES was negotiated. The client MUST read MaxCountOfBytesToReturn bytes or until EOF, whichever comes first.</li> </ul> <p>In Section 3.3.5.43, Receiving an SMB_COM_SESSION_SETUP_ANDX Request, revised description changing IdleTime to Server.Connection.IdleTime.</p> <p>Changed from:</p> <ul style="list-style-type: none"> <li>• The server MUST set CreationTime and IdleTime to be current time.</li> </ul> <p>Changed to:</p> <ul style="list-style-type: none"> <li>• The server MUST set CreationTime and Server.Connection.IdleTime to be current time.</li> </ul> <p>In Section 3.3.5.53, Receiving an SMB_COM_NT_RENAME Request, revised description changing SMB_NT_RENAME_RENAME FILE to SMB_NT_RENAME_RENAME_FILE.</p> <p>Changed from:</p> <ul style="list-style-type: none"> <li>• If the InformationLevel field value is neither SMB_NT_RENAME_RENAME FILE (0x104) nor SMB_NT_RENAME_SET_LINK_INFO (0x103), the server SHOULD fail the request with STATUS_INVALID_SMB (ERRSRV/ERRerror).</li> </ul> <p>Changed to:</p> <ul style="list-style-type: none"> <li>• If the InformationLevel field value is neither SMB_NT_RENAME_RENAME_FILE (0x104) nor SMB_NT_RENAME_SET_LINK_INFO (0x103), the server SHOULD fail the request with STATUS_INVALID_SMB (ERRSRV/ERRerror).</li> </ul>

\*Date format: YYYY/MM/DD