

[MS-SMB2]: Server Message Block (SMB) Protocol Versions 2 and 3

This topic lists the Errata found in [MS-SMB2] 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 [V64.0 – 2021/06/25](#).

Errata Published*	Description
2021/09/21	<p>In Section 3.3.5.5.3 Handling GSS-API Authentication, added a check to restrict the generation of SigningKey, ApplicationKey, Channel.SigningKey, Encryption and Decryption Key to only primary authentication.</p> <p>Changed from:</p> <p>7. If Connection.Dialect belongs to the SMB 3.x dialect family and SMB2_SESSION_FLAG_BINDING is not set in the Flags field of the request, the server MUST generate Session.SigningKey as specified in section 3.1.4.2 by providing the following inputs:</p> <p>8. If Connection.Dialect belongs to the SMB 3.x dialect family and SMB2_SESSION_FLAG_BINDING is not set in the Flags field of the request, Session.ApplicationKey MUST be generated as specified in section 3.1.4.2 and passing the following inputs:</p> <p>9. If Connection.Dialect belongs to the SMB 3.x dialect family and SMB2_SESSION_FLAG_BINDING is set in the Flags field of the request, the server MUST generate Channel.SigningKey by providing the following input values:</p> <p>11. If Connection.Dialect belongs to the SMB 3.x dialect family, SMB2_SESSION_FLAG_BINDING is not set in the Flags field of the request, Session.IsAnonymous and Session.IsGuest are set to FALSE, and Connection.ServerCapabilities includes the SMB2_GLOBAL_CAP_ENCRYPTION bit, the server MUST do the following:</p> <p>Changed to:</p> <p>7. If Connection.Dialect belongs to the SMB 3.x dialect family, and SMB2_SESSION_FLAG_BINDING is not set in the Flags field of the request, and the request is not for session reauthentication, the server MUST generate Session.SigningKey as specified in section 3.1.4.2 by providing the following inputs:</p> <p>8. If Connection.Dialect belongs to the SMB 3.x dialect family, SMB2_SESSION_FLAG_BINDING is not set in the Flags field of the request, and the request is not for session reauthentication, Session.ApplicationKey MUST be generated as specified in section 3.1.4.2 and passing the following inputs:</p> <p>9. If Connection.Dialect belongs to the SMB 3.x dialect family, SMB2_SESSION_FLAG_BINDING is set in the Flags field of the request, and the request is not for session reauthentication, the server MUST generate Channel.SigningKey by providing the following input values:</p>

Errata Published*	Description
	<p>11. If Connection.Dialect belongs to the SMB 3.x dialect family, SMB2_SESSION_FLAG_BINDING is not set in the Flags field of the request, Session.IsAnonymous and Session.IsGuest are set to FALSE, Connection.ServerCapabilities includes the SMB2_GLOBAL_CAP_ENCRYPTION bit, and the request is not for session reauthentication, the server MUST do the following:</p>
2021/09/07	<p>In Section 3.3.5.15 Receiving an SMB2 WRITE Request, added negotiated dialect check in processing of SMB2_WRITEFLAG_WRITE_THROUGH flag in SMB2 WRITE request.</p> <p>Changed From:</p> <p>If the server implements the SMB 3.0.2 or SMB 3.1.1 dialect, SMB2_WRITEFLAG_WRITE_THROUGH is set in the Flags field of the request, SMB2_WRITEFLAG_WRITE_UNBUFFERED is not set in the Flags field of the request, and Open.CreateOptions doesn't include the FILE_NO_INTERMEDIATE_BUFFERING bit, the server MUST fail the request with STATUS_INVALID_PARAMETER.</p> <p>If the server implements the SMB 2.1 or the SMB 3.x dialect family, SMB2_WRITEFLAG_WRITE_THROUGH is set in the Flags field of the request, and Open.CreateOptions doesn't include the FILE_NO_INTERMEDIATE_BUFFERING bit, the server MUST fail the request with STATUS_INVALID_PARAMETER.</p> <p>Changed To:</p> <p>If Connection.Dialect is "3.0.2" or "3.1.1", SMB2_WRITEFLAG_WRITE_THROUGH is set in the Flags field of the request, SMB2_WRITEFLAG_WRITE_UNBUFFERED is not set in the Flags field of the request, and Open.CreateOptions doesn't include the FILE_NO_INTERMEDIATE_BUFFERING bit, the server MUST fail the request with STATUS_INVALID_PARAMETER.</p> <p>If Connection.Dialect is "2.1" or "3.0", SMB2_WRITEFLAG_WRITE_THROUGH is set in the Flags field of the request, and Open.CreateOptions doesn't include the FILE_NO_INTERMEDIATE_BUFFERING bit, the server MUST fail the request with STATUS_INVALID_PARAMETER.</p>
2021/08/17	<p>The following sections were updated for processing rules on replay operation using SMB2_FLAGS_REPLAY_OPERATION bit.</p> <p>Section 3.2.5.7 Receiving an SMB2 CREATE Response for a New Create Operation Section 3.2.5.12 Receiving an SMB2 WRITE Response Section 3.2.5.14 Receiving an SMB2 IOCTL Response Section 3.2.5.18 Receiving an SMB2 SET_INFO Response</p> <p>Please see diff file</p>

*Date format: YYYY/MM/DD