

[MS-RSVD]: Remote Shared Virtual Disk Protocol

This topic lists the Errata found in [MS-RSVD] 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 [V10.0 – 2017/06/01](#).

Errata Published*	Description
2017/07/12	<p>In Section 2.2.4.4, SVHDX_TUNNEL_SRB_STATUS_RESPONSE Structure, the following fields were changed from:</p> <p>A - SenseInfoAutoGenerated (1 bit): A 1-bit field used to indicate that sense data was automatically generated by the virtual SCSI disk.</p> <p>SenseInfoExLength (1 byte): The length, in bytes, of the sense data in the SenseDataEx field.</p> <p>SenseDataEx (20 bytes): A buffer that contains the sense data.</p> <p>Changed to:</p> <p>A - SenseInfoAutoGenerated (1 bit): A 1-bit field used to indicate that sense data was automatically generated by the virtual SCSI disk.</p> <p>SenseInfoExLength (1 byte): The length, in bytes, of the sense data in the SenseDataEx field.</p> <p>SenseDataEx (20 bytes): A buffer that contains the sense data.</p> <p>In Section 2.2.4.7, SVHDX_TUNNEL_SCSI_REQUEST Structure, the descriptions of the following fields were changed from:</p> <p>Length (2 bytes): Specifies the size, in bytes, of the SVHDX_TUNNEL_SCSI_REQUEST structure excluding the DataBuffer field. The client MUST set this field to 36.</p> <p>SenseInfoExLength (1 byte): The length, in bytes, of the request sense data buffer. This value MUST be less than or equal to RSVD_SCSI_SENSE_BUFFER_SIZE.</p> <p>Changed to:</p> <p>Length (2 bytes): Specifies the size, in bytes, of the SVHDX_TUNNEL_SCSI_REQUEST structure excluding the DataBuffer field.</p> <p>SenseInfoExLength (1 byte): This field MUST be set to zero and the server MUST ignore it on receipt.</p> <p>In Section 2.2.4.8, SVHDX_TUNNEL_SCSI_RESPONSE Structure, the following fields were changed from:</p> <p>Length (2 bytes): Specifies the size, in bytes, of the SVHDX_TUNNEL_SCSI_RESPONSE structure excluding the DataBuffer field. This field MUST be set to 36.</p>

Errata Published*	Description
	<p>A - SenseInfoAutoGenerated (1 bit): A 1-bit field used to indicate that sense data was automatically generated by the virtual SCSI disk.</p> <p>CDBLength (1 byte): The length, in bytes, of the SCSI CDB.</p> <p>SenseInfoExLength (1 byte): The length, in bytes, of the sense data in the SenseDataEx field.</p> <p>SenseDataEx (20 bytes): A buffer that contains the sense data.</p> <p>Changed to:</p> <p>Length (2 bytes): Specifies the size, in bytes, of the SVHDX_TUNNEL SCSI_RESPONSE structure excluding the DataBuffer field.</p> <p>A - SenseInfoAutoGenerated (1 bit): A 1-bit field; when set to TRUE, indicates that sense data was returned by the virtual SCSI disk.</p> <p>CDBLength (1 byte): This field MUST be set to the CDBLength value received in the request and ignored on receipt.</p> <p>SenseInfoExLength (1 byte): The length, in bytes, of the SenseDataEx field. This value MUST be less than or equal to RSVD SCSI_SENSE_BUFFER_SIZE.</p> <p>SenseDataEx (variable): A buffer that contains the sense data.</p> <p>In Section 3.1.4.9, Application Requests Execution of SCSI Command, the following was changed from:</p> <p>The application provides:</p> <ul style="list-style-type: none"> • A handle to the Open identifying a shared virtual disk file. • The ID of the initiator. • The length of the SCSI CDB buffer, in bytes. • The length of the sense information, in bytes. • SrbFlags that indicate options about the SCSI request, as specified in section 2.2.4.7<4>. • The SCSI CDB buffer. • The length of any additional data (optional). • Any additional data buffer (optional). <p>The client MUST construct an SVHDX_TUNNEL SCSI_REQUEST structure, as specified in section 2.2.4.7 as follows:</p> <p>The SVHDX_TUNNEL_OPERATION_HEADER MUST be initialized as follows:</p> <ul style="list-style-type: none"> • The OperationCode field is set to RSVD_TUNNEL SCSI_OPERATION. • The Status is set to zero. • The RequestId field MUST be set to RequestIdentifier. <p>The SVHDX_TUNNEL SCSI_REQUEST MUST be initialized as follows:</p> <ul style="list-style-type: none"> • The Length field is set to 36. • The Reserved1, Reserved2, and Reserved3 fields are set to zero. • The CDBLength is set to the application-provided SCSI CDB length value. • The SenseInfoExLength set to the application-provided sense info length value. • The SrbFlags field MUST be set to the application-provided SrbFlags. • If SrbFlags includes SRB_FLAGS_DATA_OUT, set Disposition to 0x00. If SrbFlags includes SRB_FLAGS_DATA_IN, Disposition SHOULD<5> be set to 0x01. If SrbFlags includes neither SRB_FLAGS_DATA_OUT nor SRB_FLAGS_DATA_IN, set Disposition to 0x02. <p>Changed to:</p>

Errata Published*	Description
	<p>The application provides:</p> <ul style="list-style-type: none"> • A handle to the Open identifying a shared virtual disk file. • The ID of the initiator. • The length of the SCSI CDB buffer, in bytes. • SrbFlags that indicate options about the SCSI request, as specified in section 2.2.4.7<4>. • The SCSI CDB buffer. • The length of any additional data (optional). • Any additional data buffer (optional). <p>The client MUST construct an SVHDX_TUNNEL_SCSI_REQUEST structure, as specified in section 2.2.4.7 as follows:</p> <p>The SVHDX_TUNNEL_OPERATION_HEADER MUST be initialized as follows:</p> <ul style="list-style-type: none"> • The OperationCode field is set to RSVD_TUNNEL_SCSI_OPERATION. • The Status is set to zero. • The RequestId field MUST be set to RequestIdentifier. <p>The SVHDX_TUNNEL_SCSI_REQUEST is initialized as follows:</p> <ul style="list-style-type: none"> • The Length field SHOULD<5> be set to the size, in bytes, of the SVHDX_TUNNEL_SCSI_REQUEST structure excluding the DataBuffer field. • The Reserved1, Reserved2, and Reserved3 fields MUST be set to zero. • The CDBLength field MUST be set to the application-provided SCSI CDB length value. • The SenseInfoExLength field MUST be set to zero. • The SrbFlags field MUST be set to the application-provided SrbFlags. • If SrbFlags includes SRB_FLAGS_DATA_OUT, the Disposition field MUST be set to 0x00. If SrbFlags includes SRB_FLAGS_DATA_IN, the Disposition field SHOULD<6> be set to 0x01. If SrbFlags includes neither SRB_FLAGS_DATA_OUT nor SRB_FLAGS_DATA_IN, the Disposition field MUST be set to 0x02. <p><5> Section 3.1.4.9: Windows Server 2012 R2 set the value of the Length field to 36.</p> <p>In Section 3.2.5.5.3, Receiving a Status Request for a Prior Operation, the following was changed from:</p> <p>The SVHDX_TUNNEL_SRB_STATUS_RESPONSE packet MUST be initialized as follows:</p> <ul style="list-style-type: none"> • The StatusKey field MUST be set to the value received in the request. • The SenseInfoAutoGenerated field MUST be set to the value received from the virtual SCSI disk. • The SrbStatus field MUST be set to SenseError.SrbStatus. • The ScsiStatus field MUST be set to SenseError.ScsiStatus. • The SenseInfoExLength field MUST be set to the length of the SenseError.SenseData, in bytes. <p>Changed to:</p> <p>The SVHDX_TUNNEL_SRB_STATUS_RESPONSE packet is initialized as follows:</p> <ul style="list-style-type: none"> • The StatusKey field MUST be set to the value received in the request. • The SenseInfoAutoGenerated field MUST be set to the value received from the virtual SCSI disk. • The SrbStatus field MUST be set to SenseError.SrbStatus. • The ScsiStatus field MUST be set to SenseError.ScsiStatus. • The SenseInfoExLength field SHOULD<17> be set to the length of the SenseError.SenseData, in bytes.

Errata Published*	Description
	<p data-bbox="496 247 1398 300"><17> Section 3.2.5.5.3: Windows Server 2012 R2 set the SenseInfoExLength field to 20 bytes.</p> <p data-bbox="496 342 1321 394">In Section 3.2.5.5.5, Receiving a SCSI Command Request, the following was changed from:</p> <p data-bbox="496 436 1247 464">The SVHDX_TUNNEL_SCSI_RESPONSE MUST be initialized as follows:</p> <ul data-bbox="496 470 1406 1010" style="list-style-type: none"> • The SenseInfoAutoGenerated field MUST be set to the value received from the virtual SCSI disk. • The SrbStatus field MUST be set to one of the values specified in section 2.2.5. • The SCSIStatus field MUST be set to value received from the virtual SCSI disk. • The Disposition field MUST be set to the value received in the request. • SrbFlags MUST be set to the value received in the request. • The CDBLength field MUST be set to the value received in the request. • The Length field is set to the size, in bytes, of the SVHDX_TUNNEL_SCSI_RESPONSE structure that is constructed following the syntax specified in section 2.2.4.8. • The SenseInfoExLength field is set to the SenseInfoExLength received in the request. • The SenseDataEx field is set to the sense information received from the virtual SCSI disk<19>, if any. • The DataTransferLength is set to the length of the additional data returned by the virtual SCSI disk, if any. • The DataBuffer is set to the additional data returned by the virtual SCSI disk, if any. <p data-bbox="496 1020 938 1047">The response MUST be sent to the client.</p> <p data-bbox="496 1089 630 1117">Changed to:</p> <p data-bbox="496 1159 1170 1186">The SVHDX_TUNNEL_SCSI_RESPONSE is initialized as follows:</p> <ul data-bbox="496 1192 1406 1759" style="list-style-type: none"> • The SenseInfoAutoGenerated field MUST be set to the value received from the virtual SCSI disk. • The SrbStatus field MUST be set to one of the values specified in section 2.2.5. • The SCSIStatus field MUST be set to value received from the virtual SCSI disk. • The Disposition field MUST be set to the value received in the request. • The SrbFlags field MUST be set to the value received in the request. • The CDBLength field MUST be set to the value received in the request. • The Length field SHOULD<21> be set to the size, in bytes, of the SVHDX_TUNNEL_SCSI_RESPONSE structure that is constructed following the syntax specified in section 2.2.4.8. • The SenseInfoExLength field SHOULD<22> be set to the SenseInfoExLength received in the request. • If SenseInfoAutoGenerated is FALSE, the size of SenseDataEx buffer field is set to 20 bytes and set to any value. Otherwise, the SenseDataEx field SHOULD<23> be set to the sense information received from the virtual SCSI disk. • The DataTransferLength field MUST be set to the length of the additional data returned by the virtual SCSI disk, if any. • The DataBuffer MUST be set to the additional data returned by the virtual SCSI disk, if any. <p data-bbox="496 1770 938 1797">The response MUST be sent to the client.</p> <p data-bbox="496 1803 1373 1856"><21> Section 3.2.5.5.5: Windows-based servers return Server 2012 R2 sets the value of the Length field to 36.</p>

Errata Published*	Description
	<p data-bbox="500 247 1409 300"><22> Section 3.2.5.5.5: Windows Server 2012 R2 sets the SenseInfoExLength field to the value of the SenseInfoExLength field received in the request.</p> <p data-bbox="500 306 1386 359"><23> Section 3.2.5.5.5: Windows Server 2012 R2 returns 18 bytes of valid sense data, but sends a 20-byte buffer with the final 2 bytes set to any value.</p>
2017/06/26	<p data-bbox="500 384 1414 510">In Sections 2.2.4.12, SVHDX_OPEN_DEVICE_CONTEXT Structure, 2.2.4.31, SVHDX_OPEN_DEVICE_CONTEXT_RESPONSE Structure, 2.2.4.32, SVHDX_OPEN_DEVICE_CONTEXT_V2 Structure, and 2.2.4.33, SVHDX_OPEN_DEVICE_CONTEXT_V2_RESPONSE Structure, the description of InitiatorId was changed from:</p> <p data-bbox="500 556 1398 604">HasInitiatorId (1 byte): A Boolean value, where zero represents FALSE and nonzero represents TRUE.</p> <p data-bbox="500 648 630 674">Changed to:</p> <p data-bbox="500 718 1382 766">HasInitiatorId (1 byte): A Boolean value that, if set to TRUE (0x01), indicates that the message has a valid InitiatorId.</p> <p data-bbox="500 810 1308 835">In Section 3.2.1.1, Global, the description of OpenTable was changed from:</p> <p data-bbox="500 879 1414 928">OpenTable: A table of opened shared virtual disk files, as specified in section 3.2.1.2, indexed by InitiatorId.</p> <p data-bbox="500 972 630 997">Changed to:</p> <p data-bbox="500 1041 1341 1089">OpenTable: A table of Opens of shared virtual disk files, as specified in section 3.2.1.2.</p> <p data-bbox="500 1134 1398 1159">In Section 3.2.1.2, Per Open, the description of Open.LocalOpen was changed from:</p> <p data-bbox="500 1203 1382 1276">Open.LocalOpen: An Open of a shared virtual disk file in the local resource that is used to perform the local operations, such as reading or writing, to the underlying object.</p> <p data-bbox="500 1320 630 1346">Changed to:</p> <p data-bbox="500 1390 1382 1463">Open.LocalOpen: An Open of a shared virtual disk file in the local resource that is used to perform the local operations, such as reading or writing, on the underlying object.</p>

*Date format: YYYY/MM/DD