

[MS-SSTR]: Smooth Streaming Protocol

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Errata are subject to the same terms as the Open Specifications documentation referenced.

Errata below are for Protocol Document Version [V8.0 – 2017/09/15](#).

Errata Published*	Description
2018/03/13	<p>In Section 6, Appendix A: Product Behavior, Windows Server 2016 and Windows Server have been removed from the applicability list, and a new behavior note added to Section 1.5, Prerequisites/Preconditions.</p> <p>Changed from:</p> <p>1.5 Prerequisites/Preconditions This protocol assumes HTTP [RFC2616] connectivity from the client to the server. It is also assumed that the client is integrated with a higher-layer implementation that supports any media formats that are used and can otherwise play the media that is transmitted by the server.</p> <p>6 Appendix A: Product Behavior The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.</p> <ul style="list-style-type: none">• Windows Server 2008 operating system• Windows Server 2008 R2 operating system• Windows Server 2012 operating system• Windows Server 2012 R2 operating system• Windows Server 2016 operating system• Windows Server operating system <p>Changed to:</p> <p>1.5 Prerequisites/Preconditions This protocol assumes HTTP [RFC2616] connectivity from the client to the server. It is also assumed that the client is integrated with a higher-layer implementation that supports any media formats that are used and can otherwise play the media that is transmitted by the server.<1></p>

Errata Published*	Description
	<p data-bbox="500 281 1398 331"><1> Section 1.5: The Smooth Streaming Protocol is supported in the following IIS Media Services Windows implementations:</p> <p data-bbox="500 340 1187 365">IIS Media Services Version Applicable Windows Server Releases</p> <p data-bbox="500 373 1271 399">IIS Media Services 3.0 Windows Server 2008, Windows Server 2008 R2</p> <p data-bbox="500 407 1271 432">IIS Media Services 4.0 Windows Server 2008, Windows Server 2008 R2</p> <p data-bbox="500 441 1382 491">IIS Media Services 4.1 Windows Server 2008, Windows Server 2008 R2, Windows Server 2012</p> <p data-bbox="500 533 881 558">6 Appendix A: Product Behavior</p> <p data-bbox="500 567 1398 642">The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.</p> <ul data-bbox="500 684 992 915" style="list-style-type: none"> <li data-bbox="500 684 954 709">• Windows Server 2008 operating system <li data-bbox="500 751 992 777">• Windows Server 2008 R2 operating system <li data-bbox="500 819 954 844">• Windows Server 2012 operating system <li data-bbox="500 886 992 911">• Windows Server 2012 R2 operating system
2018/03/13	<p data-bbox="500 940 1365 991">In Section 2.2.4.7, TrunBox, definitions to the DataOffset and DataOffsetPresent fields have been added.</p> <p data-bbox="500 1033 662 1058">Changed from:</p> <p data-bbox="500 1066 1198 1092">SampleCount (4 bytes): The number of samples in the fragment.</p> <p data-bbox="500 1100 1398 1150">FirstSampleFlagsPresent (1 bit): Indicates that the default flags for the first sample are replaced if this field takes the value %b1.</p> <p data-bbox="500 1167 524 1192">...</p> <p data-bbox="500 1226 1414 1360">TrunBoxSampleFlags (4 bytes): The sample flags of each sample. This field MUST be present if and only if the SampleFlagsPresent field takes the value %b1. If this field is not present, its implicit value is the value of the DefaultSampleFlags field. If the FirstSampleFlags field is present and this field is omitted, this field's implicit value for the first sample in the fragment MUST be the value of the FirstSampleFlags field.</p> <p data-bbox="500 1394 1382 1478">SampleCompositionTimeOffset (4 bytes): The Sample Composition Time offset of each sample, as defined in [ISO/IEC-14496-12]. This field MUST be present if and only if the SampleCompositionTimeOffsetPresent field takes the value %b1.</p> <pre data-bbox="548 1570 1398 1881"> TrunBox = TrunBoxLength TrunBoxType [TrunBoxLongLength] TrunBoxFields TrunBoxChildren TrunBoxType = %d116 %d114 %d117 %d110 TrunBoxLength = BoxLength TrunBoxLongLength = LongBoxLength TrunBoxFields = TrunBoxVersion TrunBoxFlags SampleCount [FirstSampleFlags] *(TrunBoxPerSampleFields) ; TrunBoxPerSampleFields MUST be repeated exactly SampleCount times </pre>

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	<pre> TrunBoxFlags = 12*12 RESERVED BIT SampleCompositionTimeOffsetPresent SampleFlagsPresent SampleSizePresent SampleDurationPresent RESERVED_BIT RESERVED_BIT RESERVED_BIT RESERVED_BIT RESERVED_BIT FirstSampleFlagsPresent RESERVED_BIT RESERVED_BIT SampleCompositionTimeOffsetPresent = BIT </pre> <p>Changed to:</p> <p>SampleCount (4 bytes): The number of samples in the fragment.</p> <p>DataOffset (4 bytes): This field MUST be set. It specifies the offset from the beginning of the MoofBox field (section 2.2.4.1). If only one TrunBox is specified, then the DataOffset field MUST be the sum of the lengths of the MoofBox and all the fields in the MdatBox field (section 2.2.4.8).</p> <p>FirstSampleFlagsPresent (1 bit): Indicates that the default flags for the first sample are replaced if this field takes the value %b1.</p> <p>...</p> <p>TrunBoxSampleFlags (4 bytes): The sample flags of each sample. This field MUST be present if and only if the SampleFlagsPresent field takes the value %b1. If this field is not present, its implicit value is the value of the DefaultSampleFlags field. If the FirstSampleFlags field is present and this field is omitted, this field's implicit value for the first sample in the fragment MUST be the value of the FirstSampleFlags field.</p> <p>DataOffsetPresent (1 bit): Specifies whether the DataOffset field is present. This field MUST be set.</p> <p>SampleCompositionTimeOffset (4 bytes): The Sample Composition Time offset of each sample, as defined in [ISO/IEC-14496-12]. This field MUST be present if and only if the SampleCompositionTimeOffsetPresent field takes the value %b1.</p> <pre> TrunBox = TrunBoxLength TrunBoxType [TrunBoxLongLength] TrunBoxFields TrunBoxChildren TrunBoxType = %d116 %d114 %d117 %d110 TrunBoxLength = BoxLength TrunBoxLongLength = LongBoxLength TrunBoxFields = TrunBoxVersion TrunBoxFlags SampleCount DataOffset [FirstSampleFlags] *(TrunBoxPerSampleFields) ; TrunBoxPerSampleFields MUST be repeated exactly SampleCount times TrunBoxFlags = 12*12 RESERVED_BIT SampleCompositionTimeOffsetPresent </pre>

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	<pre> SampleFlagsPresent SampleSizePresent SampleDurationPresent RESERVED_BIT RESERVED_BIT RESERVED_BIT RESERVED_BIT RESERVED_BIT RESERVED_BIT FirstSampleFlagsPresent RESERVED_BIT RESERVED_BIT DataOffsetPresent SampleCompositionTimeOffsetPresent = BIT </pre>
2018/01/29	<p>In Section 2.2.2.5, TrackElement, we updated the CodecPrivateData field ABNF representation with the PPSField. Also, updated that PPSField contains the Picture Parameter Set (PPS).</p> <p>Changed from:</p> <ul style="list-style-type: none"> ▪ The FourCC field equals "H264": The CodecPrivateData field contains a hexadecimal-coded string representation of the following byte sequence, specified in ABNF [RFC5234]: ▪ %x00 %x00 %x00 %x01 SPSField %x00 %x00 %x00 %x01 SPSField ▪ SPSField contains the Sequence Parameter Set (SPS). ▪ PPSField contains the Slice Parameter Set (PPS). <p>Changed to:</p> <ul style="list-style-type: none"> ▪ The FourCC field equals "H264": The CodecPrivateData field contains a hexadecimal-coded string representation of the following byte sequence, specified in ABNF [RFC5234]: ▪ %x00 %x00 %x00 %x01 SPSField %x00 %x00 %x00 %x01 PPSField ▪ SPSField contains the Sequence Parameter Set (SPS). ▪ PPSField contains the Picture Parameter Set (PPS)

*Date format: YYYY/MM/DD