# [MS-SSTP]: Secure Socket Tunneling Protocol (SSTP)

This topic lists the Errata found in [MS-SSTP] 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 V15.0 - 2015/10/16.

Errata				
Published *				
*	Description			
2015/11/23	In Section 2.2.4, SSTP Attributes, clarified the attribute-specific data.			
	Changed from:			
	Value (variable): A variable-length field with length equal to field Length minus 4 that contains the attribute-specific data.			
	Changed to:			
	Value (variable): A variable-length field with length equal to field Length minus 4 that contains the attribute-specific data. The different attribute-specific data are described in sections 2.2.5 to 2.2.8. The fields "Reserved", "Attribute ID", "LengthPacket" have been repeated in those sections for complete illustration.			
2015/11/22				
2015/11/23	In Section 2.2.2, SSTP Control Packet, corrected the Attribute field lengths.			
	Changed from:			
	0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1			
	Version Reserved C LengthPacket			
	Message Type Num Attributes			
	Attribute 1			
	Attribute 2			
	Attribute N (variable)			
	···			
	Attribute 1 (4 bytes): MUST contain the first attribute.			
	Attribute 2 (4 bytes): MUST contain the second attribute.			
	Attribute N (variable): An ordered list of variable-sized attributes that compose an SSTP control message. Each attribute MUST follow the format as specified in section 2.2.4.			
	Changed to:			

Errata Published *	Description				
	0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1				
	Version Reserved C LengthPacket				
	Message Type Num Attributes				
	Attributes (variable)				
	m/r				
Attributes (variable): An ordered list of variable-sized attributes that compose an message. Each attribute MUST follow the format as specified in section 2.2.4.					
2015/11/23	In Section 2.2.8, Status Info Attribute, changed the Attribute ID field value from 0x2 to 0x02.				
	Changed from:				
	Attribute ID (1 byte): An 8-bit (1-byte) field that is used to specify the type of attribute; its value MUST be 0x2 for the Status Info attribute				
	Changed to:				
	Attribute ID (1 byte): An 8-bit (1-byte) field that is used to specify the type of attribute; its value MUST be 0x02 for the Status Info attribute				
2015/11/23	In Section 2.2.9, Call Connect Request Message (SSTP_MSG_CALL_CONNECT_REQUEST), specified the length value in the Length field description.				
	Changed from:				
	Length (12 bits): A 12-bit unsigned integer in network byte order that MUST specify the length, in bytes, of the entire message.				
	Changed to:				
	Length (12 bits): A 12-bit unsigned integer in network byte order that contains the value 0x00e for the length of the entire message.				
2015/11/23	In Section 2.2.6, Crypto Binding Request Attribute, in the Hash Protocol Bitmask field description, clarified how the bits are defined.				
	Changed from:  Hash Protocol Bitmask (1 byte): This 1-byte bitmask field is used (with the ServerHashProtocolSupported state variable described in section 3.3.1) to specify the hashing methods allowed by the server that the client uses to compute the Compound MAC in the				

Errata Published *	Description				
	Crypto Binding attribute. For more information, see section 3.2.5.2. The following bits are defined.				
	Name	Value			
	CERT_HASH_PROTOCOL_SHA1	0x01			
	CERT_HASH_PROTOCOL_SHA256	0x02			
	Changed to:				
	Hash Protocol Bitmask (1 byte): This 1-byte bitmask field is used (with the ServerHashProtocolSupported state variable described in section 3.3.1) to specify the methods allowed by the server that the client uses to compute the Compound MAC in Crypto Binding attribute. For more information, see section 3.2.5.2. The following bit defined.  A 1 MUST be placed in the appropriate bit position to select the supported hash protoserver MUST select at least one hash protocol. If the server selects both the SHA256 SHA1 hash protocols and the client supports both hash protocols (as indicated by the the ClientHashProtocolSupported state variable described in section 3.2.1), then the MUST select the SHA256 protocol. For more information about how the client process Hash Protocol Bitmask when it receives a Call Connect Acknowledge message, see see 3.2.5.3.2.				
	0 1 2 3 4 5 6 7 0 0 0 0 0 0 B A				
	Where the bits are defined as:				
	Value	Description			
	А	CERT_HASH_PROTOCOL_SHA1 is enabled when A=1 and is disabled when A=0.			
	В	CERT_HASH_PROTOCOL_SHA256 is enabled when B=1 and is disabled when B=0.			
2015/11/23	In Section 2.2.12, Call Connect Negative Acknowledgment Message (SSTP_MSG_CALL_CONNECT_NAK), and Section 2.2.13, Call Abort Message (SSTP_MSG_CALL_ABORT), removed a value from the Status field tables.				
	In Section 2.2.12, Call Connect Negative Acknowledgment Message (SSTP_MSG_CALL_CONNECT_NAK), changed from:  Status (4 bytes): A 4-byte field that specifies the reason for the failure. Its value MUST be one of the following values, the description of which is specified in the Status Info attribute (section 2.2.8).				

### Errata Published

#### **Description**

Name	Value
ATTRIB_STATUS_VALUE_NOT_SUPPORTED	0x00000004
ATTRIB_STATUS_ATTRIB_NOT_SUPPORTED_IN_MSG	0x00000009
ATTRIB_STATUS_REQUIRED_ATTRIBUTE_MISSING	0x0000000a

#### Changed to:

Status (4 bytes): A 4-byte field that specifies the reason for the failure. Its value MUST be one of the following values, the description of which is specified in the Status Info attribute (section 2.2.8).

Name	Value
ATTRIB_STATUS_VALUE_NOT_SUPPORTED	0x00000004
ATTRIB_STATUS_REQUIRED_ATTRIBUTE_MISSING	0x0000000a

In Section 2.2.13, Call Abort Message (SSTP\_MSG\_CALL\_ABORT), changed from:

Status (4 bytes): A 4-byte field that specifies the reason for the failure. Its value MUST be one of the following values, the description of which is specified in the Status Info attribute (section 2.2.8).

Name	Value
ATTRIB_STATUS_NEGOTIATION_TIMEOUT	0x00000008
ATTRIB_STATUS_ATTRIB_NOT_SUPPORTED_IN_MSG	0x00000009
ATTRIB_STATUS_REQUIRED_ATTRIBUTE_MISSING	0x0000000A

## Changed to:

Status (4 bytes): A 4-byte field that specifies the reason for the failure. Its value MUST be one of the following values, the description of which is specified in the Status Info attribute (section 2.2.8).

Name	Value
ATTRIB_STATUS_NEGOTIATION_TIMEOUT	0x00000008
ATTRIB_STATUS_ATTRIB_NOT_SUPPORTED_IN_MSG	0x00000009

\* Date format: YYYY/MM/DD