

[MS-IKEE]: Internet Key Exchange Protocol Extensions

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

Errata below are for Protocol Document Version [V23.0 – 2015/10/16](#).

Errata Published*	Description
2016/01/25	<p>In the sections listed below, corrected the bit/field names 'Fragment ID', 'Fragment Number', 'Fragment Data' and 'Payload Length' to 'Fragment_ID', 'Fragment_Number', 'Fragment_Data' and 'Payload_Length':</p> <ul style="list-style-type: none">2.2.1 NAT-T Payload Types2.2.3.1 Fragment Payload Packet3.3.1 Abstract Data Model3.3.5.3 Receiving Other IKE Messages <p>In addition, in Section 3.3.6.1 Expiration of Fragmentation Timer, added information that specifies how the Fragment payload header values are set.</p> <p>In Section 2.2.1, NAT-T Payload Types, changed from:</p> <p>Each ISAKMP message consists of a header and a variable number of payloads, each identified by a 1-octet payload type value in its Payload Type field, as specified in [RFC2408] section 3.1.</p> <p>Changed to:</p> <p>Each ISAKMP message consists of a header and a variable number of payloads, each identified by a 1-octet payload type value in its Next Payload field, as specified in [RFC2408] section 3.1.</p> <p>In Section 2.2.3.1, Fragment Payload Packet, changed from:</p> <p>...</p> <p>Fragment_ID (2 bytes): The Fragment ID field is 2 bytes that MUST specify the same value for every fragment that is generated from a particular IKE message.</p> <p>Fragment_Number (1 byte): The Fragment Number field MUST indicate the order in which the fragments are sent.</p> <p>...</p> <p>Flags (1 byte): The flag field MUST have the following value.</p> <p>...</p> <p>Fragment_Data (variable): The Fragment Data field MUST contain the fragment. The size of the Fragment Data field MUST be computed by subtracting the size of the Fragment Payload header (8 bytes) from the value of the Payload Length field.</p>

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	<p>Changed to:</p> <p>...</p> <p>Fragment_ID (2 bytes): This field is 2 bytes and contains the fragment ID. It MUST specify the same value for every fragment that is generated from a particular IKE message.</p> <p>Fragment_Number (1 byte): This field MUST indicate the order in which the fragments are sent.</p> <p>...</p> <p>Flags (1 byte): The Flags field MUST have the following value.</p> <p>...</p> <p>Fragment_Data (variable): This field MUST contain the fragment data. The size of the Fragment_Data field MUST be computed by subtracting the size of the Fragment payload header (8 bytes) from the value of the Payload_Length field.</p> <p>In Section 3.3.1, Abstract Data Model, changed from:</p> <p>...</p> <ul style="list-style-type: none"> ▪ A Flag that indicates if this fragment is the last one (that is, the Last Fragment bit is set in the Fragment payload). <p>...</p> <p>Changed to:</p> <p>...</p> <ul style="list-style-type: none"> ▪ A Flag that indicates whether this fragment is the last one (that is, the LAST_FRAGMENT bit is set in the Fragment payload). <p>...</p> <p>In Section 3.3.5.3, Receiving Other IKE Messages, changed from:</p> <p>...</p> <p>The host MUST then check whether all Fragment payloads for this Fragment ID have been received (that is, whether Fragment payloads that have a Fragment number from 1 to n have been received, and fragment n has the Last Fragment flag set).</p> <p>The host MUST silently discard all Fragment payloads for this Fragment ID if any of the following error conditions occur:</p> <ul style="list-style-type: none"> ▪ More than one Fragment payload has the Last Fragment flag set. ▪ A Fragment payload has been received with a Fragment number greater than the Fragment number of the fragment with the Last Fragment flag set. <p>...</p> <p>Changed to:</p> <p>...</p>

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	<p>The host MUST then check whether all Fragment payloads for this Fragment ID have been received (that is, whether Fragment payloads that have a Fragment number from 1 to n have been received, and fragment n has the Flags field set to LAST_FRAGMENT).</p> <p>The host MUST silently discard all Fragment payloads for this Fragment ID if any of the following error conditions occur:</p> <ul style="list-style-type: none"> ▪ More than one Fragment payload has the Flags field set to LAST_FRAGMENT. ▪ A Fragment payload has been received with a Fragment number greater than the Fragment number of the fragment with the Flags field set to LAST_FRAGMENT. <p>...</p> <p>In Section 3.3.6.1, Expiration of Fragmentation Timer, changed from:</p> <p>...</p> <ul style="list-style-type: none"> ▪ For each fragment, a message MUST be constructed as follows: <ul style="list-style-type: none"> ▪ The ISAKMP header of the original IKE message has the Next Payload field set to the Fragment payload and the Encrypted flag cleared (as specified in [RFC2408] section 3.1). ▪ The Fragment payload header has the Fragment ID set to the current value of the Fragment ID counter, the Fragment number set to the current Fragment number, and the Last Fragment flag set to Fragment number n. <p>...</p> <p>Changed to:</p> <p>...</p> <ul style="list-style-type: none"> ▪ For each fragment, a message MUST be constructed as follows: <ul style="list-style-type: none"> ▪ The ISAKMP header of the original IKE message has the Next Payload field set to the Fragment payload and the Encrypted flag cleared (as specified in [RFC2408] section 3.1). ▪ The Fragment payload header has the following values set: <ul style="list-style-type: none"> ▪ The Fragment ID is set to the current value of the Fragment ID counter ADM element. ▪ The Fragment number is set to the current Fragment number, which starts at 1 and is incremented for each fragment, ▪ The Flags field is set to LAST_FRAGMENT in Fragment number n.
2016/01/25	<p>In Section 3.12.1, Abstract Data Model, changed the flag value in the InboundPacketTimeStamp dead-peer detection ADM data element from "NLB present" to "Fast Failover".</p> <p>Changed from:</p>

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	<p>InboundPacketTimeStamp: 1 octet, type: unsigned integer. A time stamp field present if the SA has the NLB present flag described in section 3.5.1</p> <p>Changed to:</p> <p>InboundPacketTimeStamp: 1 octet, type: unsigned integer. A time stamp field that is present if the SA has the Fast Failover flag set as described in section 3.5.1.</p>

* Date format: YYYY/MM/DD