

[MS-IKEE]: Internet Key Exchange Protocol Extensions

This topic lists the Errata found in the MS-IKEE document 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 [V24.0 – 2017/06/01](#).

| Errata Published* | Description | | | | | | | | | | | | | | | | | | | | |
|--|--|--|-----------------------|--|---------|---------------------------------------|--|--|--------------|-------------------------------------|--|--|------------|--|--|--|---------------------|--|--|--|---------------|
| 2017/08/21 | <p>In Section 1.7, Versioning and Capability Negotiation, details for missing vendor IDs were added.</p> <p>Changed from:</p> <p>Capability Negotiation: IKE can advertise specific capabilities through vendor ID payloads, as specified in [RFC2408] section 3.16.<6></p> <p><6> Section 1.7: The Microsoft implementation of IKE supports the following vendor IDs.</p> <p>The Microsoft implementation vendor ID (the first rows of the second table that follows, where the common name starts with "Microsoft implementation") is constructed by appending a 32-bit (4-byte) version number in network order to the 128-bit (16-byte) MD5 hash of the "MS NT5 ISAKMPOAKLEY" string. The version number is the additional 4 bytes that denote the Windows version as detailed in the first table that follows.</p> <p>...</p> <table border="1" data-bbox="500 1224 1404 1850"> <thead> <tr> <th data-bbox="508 1234 727 1350">Common name</th> <th data-bbox="735 1234 971 1350">String representation</th> <th data-bbox="979 1234 1198 1350">Wire representation (MD5 hash of string)</th> <th data-bbox="1206 1234 1396 1350">Version</th> </tr> </thead> <tbody> <tr> <td data-bbox="508 1360 727 1476">Microsoft implementation Windows 2000</td> <td data-bbox="735 1360 971 1476">"MS NT5 ISAKMPOAKLEY" + version number 2</td> <td data-bbox="979 1360 1198 1476">1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 02</td> <td data-bbox="1206 1360 1396 1476">Windows 2000</td> </tr> <tr> <td data-bbox="508 1486 727 1602">Microsoft implementation Windows XP</td> <td data-bbox="735 1486 971 1602">"MS NT5 ISAKMPOAKLEY" + version number 3</td> <td data-bbox="979 1486 1198 1602">1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 03</td> <td data-bbox="1206 1486 1396 1602">Windows XP</td> </tr> <tr> <td data-bbox="508 1612 727 1728">Microsoft implementation Windows Server 2003</td> <td data-bbox="735 1612 971 1728">"MS NT5 ISAKMPOAKLEY" + version number 4</td> <td data-bbox="979 1612 1198 1728">1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 04</td> <td data-bbox="1206 1612 1396 1728">Windows Server 2003</td> </tr> <tr> <td data-bbox="508 1738 727 1854">Microsoft implementation Windows Vista</td> <td data-bbox="735 1738 971 1854">"MS NT5 ISAKMPOAKLEY" + version number 5</td> <td data-bbox="979 1738 1198 1854">1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 05</td> <td data-bbox="1206 1738 1396 1854">Windows Vista</td> </tr> </tbody> </table> | Common name | String representation | Wire representation (MD5 hash of string) | Version | Microsoft implementation Windows 2000 | "MS NT5 ISAKMPOAKLEY" + version number 2 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 02 | Windows 2000 | Microsoft implementation Windows XP | "MS NT5 ISAKMPOAKLEY" + version number 3 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 03 | Windows XP | Microsoft implementation Windows Server 2003 | "MS NT5 ISAKMPOAKLEY" + version number 4 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 04 | Windows Server 2003 | Microsoft implementation Windows Vista | "MS NT5 ISAKMPOAKLEY" + version number 5 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 05 | Windows Vista |
| Common name | String representation | Wire representation (MD5 hash of string) | Version | | | | | | | | | | | | | | | | | | |
| Microsoft implementation Windows 2000 | "MS NT5 ISAKMPOAKLEY" + version number 2 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 02 | Windows 2000 | | | | | | | | | | | | | | | | | | |
| Microsoft implementation Windows XP | "MS NT5 ISAKMPOAKLEY" + version number 3 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 03 | Windows XP | | | | | | | | | | | | | | | | | | |
| Microsoft implementation Windows Server 2003 | "MS NT5 ISAKMPOAKLEY" + version number 4 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 04 | Windows Server 2003 | | | | | | | | | | | | | | | | | | |
| Microsoft implementation Windows Vista | "MS NT5 ISAKMPOAKLEY" + version number 5 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 05 | Windows Vista | | | | | | | | | | | | | | | | | | |

| Errata Published* | Description | | | |
|-------------------|---|--|--|--|
| | Microsoft implementation Windows Server 2008 | "MS NT5 ISAKMPOAKLEY" + version number 6 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 06 | Windows Server 2008 |
| | Microsoft implementation Windows 7 | "MS NT5 ISAKMPOAKLEY" + version number 7 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 07 | Windows 7 |
| | Microsoft implementation Windows Server 2008 R2 | "MS NT5 ISAKMPOAKLEY" + version number 8 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 08 | Windows Server 2008 R2 |
| | Microsoft implementation Windows 8 | "MS NT5 ISAKMPOAKLEY" + version number 9 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 09 | Windows 8 |
| | Microsoft implementation Windows Server 2012 | "MS NT5 ISAKMPOAKLEY" + version number 9 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 09 | Windows Server 2012 |
| | Microsoft implementation Windows 8.1 | "MS NT5 ISAKMPOAKLEY" + version number 9 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 09 | Windows 8.1 |
| | Microsoft implementation Windows 10 | "MS NT5 ISAKMPOAKLEY" + version number 9 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 09 | Windows 10 |
| | Microsoft implementation Windows Server 2012 R2 | "MS NT5 ISAKMPOAKLEY" + version number 9 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 09 | Windows Server 2012 R2 |
| | Microsoft implementation Windows Server 2016 | "MS NT5 ISAKMPOAKLEY" + version number 9 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 09 | Windows Server 2016 |
| | Kerberos authentication supported (as specified in [GSS]) | "GSSAPI" | 62 1B 04 BB 09 88 2A C1 E1 59 35 FE FA 24 AE EE | All versions listed in the Product Behavior Appendix |
| | NLB/MSCS fast failover supported | "Vid-Initial-Contact" | 26 24 4D 38 ED DB 61 B3 17 2A 36 E3 D0 CF B8 19 | All versions listed in the Product Behavior Appendix |
| | NLB/MSCS fast failover supported | "NLBS_PRESENT" | 72 87 2B 95 FC DA 2E B7 08 EF E3 22 11 9B 49 71 | All versions listed in the Product Behavior Appendix |

| Errata Published* | Description | | | |
|-------------------|-----------------------------------|------------------------------------|--|---|
| | Fragmentation avoidance supported | "FRAGMENTATION" | 40 48 B7 D5 6E BC E8 85 25 E7 DE 7F 00 D6 C2 D3 | All versions listed in the Product Behavior Appendix |
| | NAT-T supported | "draft-ietf-ipsec-nat-t-ike-02\n" | 90 CB 80 91 3E BB 69 6E 08 63 81 B5 EC 42 7B 1F | All versions listed in the Product Behavior Appendix |
| | NAT-T supported | "RFC 3947" | 4A 13 1C 81 07 03 58 45 5C 57 28 F2 0E 95 45 2F | All versions listed in the Product Behavior Appendix except Windows 2000, Windows XP, and Windows Server 2003 |
| | AuthIP supported | "MS-MamieExists" | 21 4C A4 FA FF A7 F3 2D 67 48 E5 30 33 95 AE 83 | All versions listed in the Product Behavior Appendix except Windows 2000, Windows XP, and Windows Server 2003 |
| | CGA supported | "IKE CGA version 1" | E3 A5 96 6A 76 37 9F E7 07 22 82 31 E5 CE 86 52 | All versions listed in the Product Behavior Appendix except Windows 2000, Windows XP, and Windows Server 2003 |
| | Negotiation discovery supported | "MS-Negotiation Discovery Capable" | FB 1D E3 CD F3 41 B7 EA 16 B7 E5 BE 08 55 F1 20 | All versions listed in the Product Behavior Appendix except Windows 2000, Windows XP, and Windows Server 2003 |
| | Microsoft Xbox One 2013 | "Microsoft Xbox One 2013" | 8A A3 94 CF 8A 55 77 DC 31 10 C1 13 B0 27 A4 F2 | Windows 10 and Windows Server 2016 |
| | Xbox IKEv2 Negotiation | "Xbox IKEv2 Negotiation" | 66 08 22 B3 A7 3A 24 41 49 57 8D 62 E0 EB 46 A0 | Windows 10 and Windows Server 2016 |
| | Security Realm ID | "MSFT IPsec Security Realm Id" | 68 6A 8C BD FE 63 4B 40 51 46 FB 2B AF 33 E9 E8 | Windows 10 and Windows Server 2016 |
| | Changed to: | | | |

| Errata Published* | Description | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---------------------------|--|---------|--|---|---|-----------------|--|---|---|---------------|--|---|---|---------------------------|---|---|---|------------------|--|---|---|---------------------------|
| | <p>Capability Negotiation: IKE can advertise specific capabilities through vendor ID payloads, as specified in [RFC2408] section 3.16.<6></p> <p><6> Section 1.7: The Microsoft implementation of IKE supports the following vendor IDs.</p> <p>The Microsoft implementation vendor ID (the first rows of the second table that follows, where the common name starts with "Microsoft implementation") is constructed by appending a 32-bit (4-byte) version number in network order to the 128-bit (16-byte) MD5 hash of the "MS NT5 ISAKMPOAKLEY" string. The version number is the additional 4 bytes that denote the Windows version as detailed in the first table that follows.</p> <p>...</p> <p>In other cases, a keying module vendor ID is constructed by appending a 32-bit (4-byte) module value in network byte order to the 128-bit (16-byte) MD5 hash of the "KEY_MODS" string to create its wire representation. Examples of this are shown in the table immediately below in rows where the Common name contains the text "Microsoft supported keying modules". A similar organization applies to constructing a vendor ID for the "AUTHIP_INIT_KE_DH_GROUP" strings shown in rows of the table that follows which have the Common name "AuthIP Initiator DH type sent in KE". Other vendor IDs are as stated in the same table.</p> <p>Additional tables that follow the table immediately below specify key module values and Diffie Hellman (DH) group values that are available for constructing vendor IDs for keying modules and AuthIP Initiator DH groups, respectively.</p> <table border="1" data-bbox="500 961 1414 1860"> <thead> <tr> <th data-bbox="500 961 704 1094">Common name</th> <th data-bbox="704 961 1073 1094">String representation</th> <th data-bbox="1073 961 1265 1094">Wire representation (MD5 hash of string)</th> <th data-bbox="1265 961 1414 1094">Version</th> </tr> </thead> <tbody> <tr> <td data-bbox="500 1094 704 1247">Microsoft implementation Windows 2000</td> <td data-bbox="704 1094 1073 1247">"MS NT5 ISAKMPOAKLEY" + version number 2</td> <td data-bbox="1073 1094 1265 1247">1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 02</td> <td data-bbox="1265 1094 1414 1247">Windows 2000</td> </tr> <tr> <td data-bbox="500 1247 704 1400">Microsoft implementation Windows XP</td> <td data-bbox="704 1247 1073 1400">"MS NT5 ISAKMPOAKLEY" + version number 3</td> <td data-bbox="1073 1247 1265 1400">1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 03</td> <td data-bbox="1265 1247 1414 1400">Windows XP</td> </tr> <tr> <td data-bbox="500 1400 704 1554">Microsoft implementation Windows Server 2003</td> <td data-bbox="704 1400 1073 1554">"MS NT5 ISAKMPOAKLEY" + version number 4</td> <td data-bbox="1073 1400 1265 1554">1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 04</td> <td data-bbox="1265 1400 1414 1554">Windows Server 2003</td> </tr> <tr> <td data-bbox="500 1554 704 1707">Microsoft implementation Windows Vista</td> <td data-bbox="704 1554 1073 1707">"MS NT5 ISAKMPOAKLEY" + version number 5</td> <td data-bbox="1073 1554 1265 1707">1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 05</td> <td data-bbox="1265 1554 1414 1707">Windows Vista</td> </tr> <tr> <td data-bbox="500 1707 704 1860">Microsoft implementation Windows Server 2008</td> <td data-bbox="704 1707 1073 1860">"MS NT5 ISAKMPOAKLEY" + version number 6</td> <td data-bbox="1073 1707 1265 1860">1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 06</td> <td data-bbox="1265 1707 1414 1860">Windows Server 2008</td> </tr> </tbody> </table> | Common name | String representation | Wire representation (MD5 hash of string) | Version | Microsoft implementation Windows 2000 | "MS NT5 ISAKMPOAKLEY" + version number 2 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 02 | Windows 2000 | Microsoft implementation Windows XP | "MS NT5 ISAKMPOAKLEY" + version number 3 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 03 | Windows XP | Microsoft implementation Windows Server 2003 | "MS NT5 ISAKMPOAKLEY" + version number 4 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 04 | Windows Server 2003 | Microsoft implementation Windows Vista | "MS NT5 ISAKMPOAKLEY" + version number 5 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 05 | Windows Vista | Microsoft implementation Windows Server 2008 | "MS NT5 ISAKMPOAKLEY" + version number 6 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 06 | Windows Server 2008 |
| Common name | String representation | Wire representation (MD5 hash of string) | Version | | | | | | | | | | | | | | | | | | | | | | |
| Microsoft implementation Windows 2000 | "MS NT5 ISAKMPOAKLEY" + version number 2 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 02 | Windows 2000 | | | | | | | | | | | | | | | | | | | | | | |
| Microsoft implementation Windows XP | "MS NT5 ISAKMPOAKLEY" + version number 3 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 03 | Windows XP | | | | | | | | | | | | | | | | | | | | | | |
| Microsoft implementation Windows Server 2003 | "MS NT5 ISAKMPOAKLEY" + version number 4 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 04 | Windows Server 2003 | | | | | | | | | | | | | | | | | | | | | | |
| Microsoft implementation Windows Vista | "MS NT5 ISAKMPOAKLEY" + version number 5 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 05 | Windows Vista | | | | | | | | | | | | | | | | | | | | | | |
| Microsoft implementation Windows Server 2008 | "MS NT5 ISAKMPOAKLEY" + version number 6 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 06 | Windows Server 2008 | | | | | | | | | | | | | | | | | | | | | | |

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|-------------------|---|--|---|--|
| | Microsoft implementation Windows 7 | "MS_NT5_ISAKMPOAKLEY" + version number 7 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 07 | Windows 7 |
| | Microsoft implementation Windows Server 2008 R2 | "MS_NT5_ISAKMPOAKLEY" + version number 8 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 08 | Windows Server 2008 R2 |
| | Microsoft implementation Windows 8 | "MS_NT5_ISAKMPOAKLEY" + version number 9 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 09 | Windows 8 |
| | Microsoft implementation Windows Server 2012 | "MS_NT5_ISAKMPOAKLEY" + version number 9 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 09 | Windows Server 2012 |
| | Microsoft implementation Windows 8.1 | "MS_NT5_ISAKMPOAKLEY" + version number 9 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 09 | Windows 8.1 |
| | Microsoft implementation Windows 10 | "MS_NT5_ISAKMPOAKLEY" + version number 9 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 09 | Windows 10 |
| | Microsoft implementation Windows Server 2012 R2 | "MS_NT5_ISAKMPOAKLEY" + version number 9 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 09 | Windows Server 2012 R2 |
| | Microsoft implementation Windows Server 2016 | "MS_NT5_ISAKMPOAKLEY" + version number 9 | 1E 2B 51 69 05 99 1C 7D 7C 96 FC BF B5 87 E4 61 00 00 00 09 | Windows Server 2016 |
| | Microsoft supported keying modules | "KEY_MODS" + Key Module (IKE) | 01 52 8b bb c0 06 96 12 18 49 ab 9a 1c 5b 2a 51 00 00 00 00 | Windows 7 and later, and Windows Server 2008 R2 operating system and later |
| | Microsoft supported keying modules | "KEY_MODS" + Key Module (AuthIP) | 01 52 8b bb c0 06 96 12 18 49 ab 9a 1c 5b 2a 51 00 00 00 01 | Windows 7 and later, and Windows Server |

| Errata Published* | Description | | | |
|-------------------|---|-----------------------------------|---|---|
| | | | | 2008 R2 and later |
| | Microsoft supported keying modules | "KEY_MODS" + Key Module (IKEv2) | 01 52 8b bb c0 06 96 12 18 49 ab 9a 1c 5b 2a 51 00 00 00 02 | Windows 7 and later, and Windows Server 2008 R2 and later |
| | Kerberos authentication supported (as specified in [GSS]) | "GSSAPI" | 62 1B 04 BB 09 88 2A C1 E1 59 35 FE FA 24 AE EE | All versions listed in the Product Behavior Appendix |
| | NLB/MSCS fast failover supported | "Vid-Initial-Contact" | 26 24 4D 38 ED DB 61 B3 17 2A 36 E3 D0 CF B8 19 | All versions listed in the Product Behavior Appendix |
| | NLB/MSCS fast failover supported | "NLBS_PRESENT" | 72 87 2B 95 FC DA 2E B7 08 EF E3 22 11 9B 49 71 | All versions listed in the Product Behavior Appendix |
| | Fragmentation avoidance supported | "FRAGMENTATION" | 40 48 B7 D5 6E BC E8 85 25 E7 DE 7F 00 D6 C2 D3 | All versions listed in the Product Behavior Appendix |
| | NAT-T supported | "draft-ietf-ipsec-nat-t-ike-02\n" | 90 CB 80 91 3E BB 69 6E 08 63 81 B5 EC 42 7B 1F | All versions listed in the Product Behavior Appendix |
| | NAT-T supported | "RFC 3947" | 4A 13 1C 81 07 03 58 45 5C 57 28 F2 0E 95 45 2F | All versions listed in the Product Behavior Appendix except Windows 2000, Windows XP, and Windows |

| Errata Published* | Description | | | |
|-------------------|-------------------------------------|---|---|---|
| | | | | Server 2003 |
| | AuthIP supported | "MS-MamieExists" | 21 4C A4 FA FF A7 F3 2D 67 48 E5 30 33 95 AE 83 | All versions listed in the Product Behavior Appendix except Windows 2000, Windows XP, and Windows Server 2003 |
| | CGA supported | "IKE CGA version 1" | E3 A5 96 6A 76 37 9F E7 07 22 82 31 E5 CE 86 52 | All versions listed in the Product Behavior Appendix except Windows 2000, Windows XP, and Windows Server 2003 |
| | Negotiation discovery supported | "MS-Negotiation Discovery Capable" | FB 1D E3 CD F3 41 B7 EA 16 B7 E5 BE 08 55 F1 20 | All versions listed in the Product Behavior Appendix except Windows 2000, Windows XP, and Windows Server 2003 |
| | AuthIP Initiator DH type sent in KE | "AUTHIP_INIT_KE_DH_GROUP" + Diffie Hellman group (IKEEXT_DH_GROUP_NONE) | 7B B9 38 67 D7 6C 8D 80 DF 0F 40 FA E8 FC 3B 19 00 00 00 00 | Windows 8 and later, and Windows Server 2012 and later |
| | AuthIP Initiator DH type sent in KE | "AUTHIP_INIT_KE_DH_GROUP" + Diffie Hellman group (IKEEXT_DH_GROUP_1) | 7B B9 38 67 D7 6C 8D 80 DF 0F 40 FA | Windows 8 and later, and Windows Server |

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|-------------------|---|---|---|--|
| | | | E8 FC 3B 19 00 00 00 01 | 2012 and later |
| | AuthIP Initiator DH type sent in KE | "AUTHIP_INIT_KE_DH_GROUP" + Diffie Hellman group (IKEEXT_DH_GROUP_2) | 7B B9 38 67 D7 6C 8D 80 DF 0F 40 FA E8 FC 3B 19 00 00 00 02 | Windows 8 and later, and Windows Server 2012 and later |
| | AuthIP Initiator DH type sent in KE | "AUTHIP_INIT_KE_DH_GROUP" + Diffie Hellman group (IKEEXT_DH_GROUP_14 / IKEEXT_DH_GROUP_2048) | 7B B9 38 67 D7 6C 8D 80 DF 0F 40 FA E8 FC 3B 19 00 00 00 03 | Windows 8 and later, and Windows Server 2012 and later |
| | AuthIP Initiator DH type sent in KE | "AUTHIP_INIT_KE_DH_GROUP" + Diffie Hellman group (IKEEXT_DH_ECP_256) | 7B B9 38 67 D7 6C 8D 80 DF 0F 40 FA E8 FC 3B 19 00 00 00 04 | Windows 8 and later, and Windows Server 2012 and later |
| | AuthIP Initiator DH type sent in KE | "AUTHIP_INIT_KE_DH_GROUP" + Diffie Hellman group (IKEEXT_DH_ECP_384) | 7B B9 38 67 D7 6C 8D 80 DF 0F 40 FA E8 FC 3B 19 00 00 00 05 | Windows 8 and later, and Windows Server 2012 and later |
| | AuthIP Initiator DH type sent in KE | "AUTHIP_INIT_KE_DH_GROUP" + Diffie Hellman group (IKEEXT_DH_GROUP_24) | 7B B9 38 67 D7 6C 8D 80 DF 0F 40 FA E8 FC 3B 19 00 00 00 06 | Windows 8 and later, and Windows Server 2012 and later |
| | AuthIP Initiator DH type sent in KE | "AUTHIP_INIT_KE_DH_GROUP" + Diffie Hellman group (IKEEXT_DH_GROUP_MAX) | 7B B9 38 67 D7 6C 8D 80 DF 0F 40 FA E8 FC 3B 19 00 00 00 07 | Windows 8 and later, and Windows Server 2012 and later |
| | Microsoft Xbox One 2013 | "Microsoft Xbox One 2013" | 8A A3 94 CF 8A 55 77 DC 31 10 C1 13 B0 27 A4 F2 | Windows 10 and Windows Server 2016 |
| | Xbox IKEv2 Negotiation | "Xbox IKEv2 Negotiation" | 66 08 22 B3 A7 3A 24 41 49 57 8D 62 E0 EB 46 A0 | Windows 10 and Windows Server 2016 |

| Errata Published* | Description | | | |
|-------------------|--|--------------------------------|--|------------------------------------|
| | Security Realm ID | "MSFT IPsec Security Realm Id" | 68 6A 8C BD FE 63 4B 40 51 46 FB 2B AF 33 E9 E8 | Windows 10 and Windows Server 2016 |
| | Keying Module | | 4-Byte Value | |
| | IKEEXT_KEY_MODULE_IKE | | 00 00 00 00 | |
| | IKEEXT_KEY_MODULE_AUTHIP | | 00 00 00 01 | |
| | IKEEXT_KEY_MODULE_IKEV2 | | 00 00 00 02 | |
| | DH Group | | 4-Byte Value | |
| | IKEEXT_DH_GROUP_NONE | | 00 00 00 00 | |
| | IKEEXT_DH_GROUP_1 | | 00 00 00 01 | |
| | IKEEXT_DH_GROUP_2 | | 00 00 00 02 | |
| | IKEEXT_DH_GROUP_14 / IKEEXT_DH_GROUP_2048 | | 00 00 00 03 | |
| | IKEEXT_DH_ECP_256 | | 00 00 00 04 | |
| | IKEEXT_DH_ECP_384 | | 00 00 00 05 | |
| | IKEEXT_DH_GROUP_24 | | 00 00 00 06 | |
| | IKEEXT_DH_GROUP_MAX | | 00 00 00 07 | |

*Date format: YYYY/MM/DD