```
Created
           2005-01-18
   Last Updated
           2018-08-21
   Available Formats
           [IMG]
           XML [IMG]
           HTML [IMG]
           Plain text
   Registries included below
     * IKEv2 Exchange Types
     * IKEv2 Payload Types
     * Transform Type Values
          * IKEv2 Transform Attribute Types
          * Transform Type 1 - Encryption Algorithm Transform IDs
          * Transform Type 2 - Pseudorandom Function Transform IDs
          * Transform Type 3 - Integrity Algorithm Transform IDs
          * Transform Type 4 - Diffie-Hellman Group Transform IDs
* Transform Type 5 - Extended Sequence Numbers Transform IDs
     * IKEv2 Identification Payload ID Types
     * IKEv2 Certificate Encodings
     * IKEv2 Authentication Method
     * IKEv2 Notify Message Types - Error Types
     * IKEv2 Notify Message Types - Status Types
     * IKEv2 Notification IPCOMP Transform IDs (Value 16387)
     * IKEv2 Security Protocol Identifiers
     * IKEv2 Traffic Selector Types
     * IKEv2 Configuration Payload CFG Types
     * IKEv2 Configuration Payload Attribute Types
     * IKEv2 Gateway Identity Types
     * ROHC Attribute Types
     * IKEv2 Secure Password Methods
     * IKEv2 Hash Algorithms
IKEv2 Exchange Types
   Registration Procedure(s)
 Expert Review
   Expert(s)
 Tero Kivinen
   Reference
           [RFC7296]
   Available Formats
           [IMG]
           ĊSV
    Value
             Exchange Type
                                     Reference
    0-33
                               [RFC7296]
           Reserved
     34
           IKE SA INIT
                               [RFC7296]
     35
           IKE_AUTH
                               [RFC7296]
           CREATE_CHILD_SA
     36
                               [RFC7296]
     37
           INFORMATIONAL
                               [RFC7296]
           IKE_SESSION_RESUME [RFC5723]
     38
     39
           GSA AUTH
                               [draft-yeung-g-ikev2]
```

```
40
           GSA_REGISTRATION
                               [draft-yeung-g-ikev2]
     41
           GSA_REKEY
                               [draft-yeung-g-ikev2]
   42-239 Unassigned
   240-255 Private use
                               [RFC7296]
IKEv2 Payload Types
   Registration Procedure(s)
Expert Review
   Expert(s)
Tero Kivinen
   Reference
           [RFC7296]
   Available Formats
           [IMG]
           CSV
    Value
                    Next Payload Type
                                                 Notation
                                                                 Reference
           No Next Payload
                                                           [RFC7296]
      0
    1-32
           Reserved
                                                           [RFC7296]
           Security Association
                                                 SA
                                                           [RFC7296]
     33
     34
           Key Exchange
                                                 ΚE
                                                           [RFC7296]
     35
           Identification - Initiator
                                                 IDi
                                                           [RFC7296]
     36
           Identification - Responder
                                                 IDr
                                                           [RFC7296]
     37
           Certificate
                                                  CERT
                                                           [RFC7296]
     38
           Certificate Request
                                                  CERTREQ
                                                           [RFC7296]
     39
                                                  AUTH
           Authentication
                                                           [RFC7296]
                                                           [RFC7296]
     40
           Nonce
                                                 Ni, Nr
           Notify
     41
                                                 Ν
                                                           [RFC7296]
     42
           Delete
                                                 D
                                                           [RFC7296]
     43
           Vendor ID
                                                 ٧
                                                           [RFC7296]
           Traffic Selector - Initiator
     44
                                                 TSi
                                                           [RFC7296]
           Traffic Selector - Responder
     45
                                                 TSr
                                                           [RFC7296]
                                                           [RFC7296]
     46
           Encrypted and Authenticated
                                                 SK
     47
           Configuration
                                                  CP
                                                           [RFC7296]
     48
           Extensible Authentication
                                                  EAP
                                                           [RFC7296]
     49
           Generic Secure Password Method
                                                  GSPM
                                                           [RFC6467]
     50
           Group Identification
                                                           [draft-yeung-g-ikev2]
                                                  IDg
     51
           Group Security Association
                                                  GSA
                                                           [draft-yeung-g-ikev2]
     52
           Key Download
                                                  KD
                                                           [draft-yeung-g-ikev2]
     53
           Encrypted and Authenticated Fragment SKF
                                                           [RFC7383]
     54
           Puzzle Solution
                                                  PS
                                                           [RFC8019]
   55-127 Unassigned
   128-255 Private use
                                                           [RFC7296]
Transform Type Values
   Registration Procedure(s)
Expert Review
   Expert(s)
Tero Kivinen
   Reference
           [RFC7296]
   Available Formats
           [IMG]
           CSV
```

```
Type
                    Description
                                                     Used In
                                                                       Reference
          Reserved
                                                                       [RFC7296]
     0
     1
          Encryption Algorithm (ENCR)
                                          (IKE and ESP)
                                                                       [RFC7296]
          Pseudo-random Function (PRF)
                                           (IKE)
                                                                       [RFC7296]
          Integrity Algorithm (INTEG)
                                           (IKE, AH, optional in ESP) [RFC7296]
          Diffie-Hellman Group (D-H)
                                          (IKE, optional in AH & ESP) [RFC7296]
          Extended Sequence Numbers (ESN) (AH and ESP)
                                                                       [RFC7296]
   6-240 Unassigned
                                                                       [RFC7296]
  241-255 Private use
 IKEv2 Transform Attribute Types
  Registration Procedure(s)
Expert Review
  Expert(s)
Tero Kivinen
  Reference
          [RFC7296]
  Available Formats
          [IMG]
          CSV
     Value
                 Attribute Type
                                   Format Reference
     0-13
              Reserved
                                           [RFC7296]
     14
              Key Length (in bits) TV
                                           [RFC7296]
     15-17
              Reserved
                                           [RFC7296]
   18-16383
              Unassigned
  16384-32767 Private use
                                          [RFC7296]
 Transform Type 1 - Encryption Algorithm Transform IDs
  Registration Procedure(s)
Expert Review
  Expert(s)
Tero Kivinen
  Reference
          [RFC7296]
  Available Formats
          [IMG]
          CSV
```

Name	ESP Reference	IKEv2 Reference
Reserved	[RFC7296]	-
ENCR_DES_IV64	UNSPECIFIED	-
ENCR_DES	[RFC2405]	[RFC7296]
ENCR_3DES	[RFC2451]	[RFC7296]
ENCR_RC5	[RFC2451]	[RFC7296]
ENCR_IDEA	[RFC2451]	[RFC7296]
ENCR_CAST	[RFC2451]	[RFC7296]
ENCR_BLOWFISH	[RFC2451]	[RFC7296]
ENCR_3IDEA	UNSPECIFIED	[RFC7296]
ENCR_DES_IV32	UNSPECIFIED	-
Reserved	[RFC7296]	-
ENCR_NULL	[RFC2410]	Not allowed
ENCR_AES_CBC	[RFC3602]	[RFC7296]
ENCR_AES_CTR	[RFC3686]	[RFC5930]
ENCR_AES_CCM_8	[RFC4309]	[RFC5282]
	Reserved ENCR_DES_IV64 ENCR_DES ENCR_3DES ENCR_RC5 ENCR_IDEA ENCR_CAST ENCR_BLOWFISH ENCR_3IDEA ENCR_DES_IV32 Reserved ENCR_NULL ENCR_AES_CBC ENCR_AES_CTR	Reserved [RFC7296] ENCR_DES_IV64 UNSPECIFIED ENCR_DES [RFC2405] ENCR_3DES [RFC2451] ENCR_RC5 [RFC2451] ENCR_IDEA [RFC2451] ENCR_CAST [RFC2451] ENCR_BLOWFISH [RFC2451] ENCR_3IDEA UNSPECIFIED ENCR_DES_IV32 UNSPECIFIED Reserved [RFC7296] ENCR_NULL [RFC2410] ENCR_AES_CBC [RFC3602] ENCR_AES_CTR [RFC3686]

```
15
             ENCR_AES_CCM_12
                                              [RFC4309]
                                                                                 [RFC5282]
      16
             ENCR_AES_CCM_16
                                              [RFC4309]
                                                                                 [RFC5282]
      17
             Unassigned
      18
             ENCR AES GCM 8
                                               [RFC4106] [RFC8247]
                                                                                 [RFC5282] [RFC8247]
             ENCR_AES_GCM_12
                                              [RFC4106] [RFC8247]
                                                                                 [RFC5282] [RFC8247]
      19
      20
             ENCR_AES_GCM_16
                                                                                 [RFC5282] [RFC8247]
                                              [RFC4106] [RFC8247]
      21
             ENCR NULL AUTH AES GMAC
                                              [RFC4543]
                                                                                Not allowed
      22
             Reserved for IEEE P1619 XTS-AES [Matt Ball]
      23
             ENCR CAMELLIA CBC
                                              [RFC5529]
                                                                                [RFC7296]
      24
             ENCR CAMELLIA CTR
                                               [RFC5529]
      25
             ENCR_CAMELLIA_CCM_8
                                               [RFC5529] [RFC8247]
      26
             ENCR_CAMELLIA_CCM_12
                                               [RFC5529] [RFC8247]
      27
             ENCR CAMELLIA CCM 16
                                               [RFC5529] [RFC8247]
      28
             ENCR_CHACHA20_POLY1305
                                               [RFC7634]
                                                                                [RFC7634]
             ENCR AES CCM 8 IIV
                                               [draft-ietf-ipsecme-implicit-iv] Not allowed
      29
             ENCR_AES_GCM_16_IIV
                                               [draft-ietf-ipsecme-implicit-iv] Not allowed
      30
             ENCR_CHACHA20_POLY1305_IIV
                                              [draft-ietf-ipsecme-implicit-iv] Not allowed
      31
   32-1023
             Unassigned
  1024-65535 Private use
                                              [RFC7296]
                                                                                [RFC7296]
Transform Type 2 - Pseudorandom Function Transform IDs
  Registration Procedure(s)
Expert Review
  Expert(s)
Tero Kivinen
  Reference
          [RFC7296]
  Available Formats
          [IMG]
          CSV
    Number
                                  Reference
                   Name
      0
             Reserved
                                [RFC7296]
             PRF HMAC MD5
                                [RFC2104]
      1
      2
             PRF HMAC SHA1
                                [RFC2104]
      3
             PRF_HMAC_TIGER
                                [UNSPECIFIED]
      4
             PRF_AES128_XCBC
                                [RFC4434]
      5
             PRF_HMAC_SHA2_256 [RFC4868]
      6
             PRF_HMAC_SHA2_384 [RFC4868]
             PRF_HMAC_SHA2_512 [RFC4868]
             PRF_AES128_CMAC
                                [RFC4615]
```

```
Unassigned
 9-1023
1024-65535 Private use
                             [RFC7296]
```

Transform Type 3 - Integrity Algorithm Transform IDs

Registration Procedure(s)

```
Expert Review
```

Expert(s)

Tero Kivinen

Reference

[RFC7296]

Available Formats [IMG] CSV

```
Number
                       Name
                                          Reference
      0
             NONE
                                      [RFC7296]
             AUTH HMAC MD5 96
                                      [RFC2403][RFC7296]
      1
      2
             AUTH HMAC SHA1 96
                                      [RFC2404][RFC7296]
      3
             AUTH_DES_MAC
                                      [UNSPECIFIED]
      4
             AUTH_KPDK_MD5
                                      [UNSPECIFIED]
      5
             AUTH AES XCBC 96
                                      [RFC3566][RFC7296]
             AUTH HMAC MD5 128
      6
                                      [RFC4595]
      7
             AUTH HMAC SHA1 160
                                      [RFC4595]
      8
             AUTH AES CMAC 96
                                      [RFC4494]
      9
             AUTH_AES_128_GMAC
                                      [RFC4543]
      10
             AUTH_AES_192_GMAC
                                      [RFC4543]
      11
             AUTH AES 256 GMAC
                                      [RFC4543]
      12
             AUTH_HMAC_SHA2_256_128
                                     [RFC4868]
             AUTH HMAC SHA2 384 192 [RFC4868]
      13
             AUTH_HMAC_SHA2_512_256 [RFC4868]
      14
   15-1023
             Unassigned
  1024-65535 Private use
                                      [RFC7296]
 Transform Type 4 - Diffie-Hellman Group Transform IDs
  Registration Procedure(s)
Expert Review
  Expert(s)
Tero Kivinen
  Reference
          [RFC7296][RFC6989]
  Available Formats
          [IMG]
          CSV
```

```
Number
                                    Name
                                                                     Recipient Tests
                                                                                       Reference
   0
           NONE
                                                                                        [RFC7296]
   1
           768-bit MODP Group
                                                                   [RFC6989], Sec. 2.1 [RFC7296]
                                                                   [RFC6989], Sec. 2.1 [RFC7296]
   2
           1024-bit MODP Group
  3-4
           Reserved
                                                                                        [RFC7296]
   5
           1536-bit MODP Group
                                                                   [RFC6989], Sec. 2.1 [RFC3526]
  6-13
           Unassigned
                                                                                        [RFC7296]
           2048-bit MODP Group
                                                                   [RFC6989], Sec. 2.1 [RFC3526]
   14
   15
           3072-bit MODP Group
                                                                   [RFC6989], Sec. 2.1 [RFC3526]
   16
           4096-bit MODP Group
                                                                   [RFC6989], Sec. 2.1 [RFC3526]
   17
           6144-bit MODP Group
                                                                   [RFC6989], Sec. 2.1 [RFC3526]
           8192-bit MODP Group
                                                                   [RFC6989], Sec. 2.1 [RFC3526]
   18
                                                                   [RFC6989], Sec. 2.3 [RFC5903]
   19
           256-bit random ECP group
   20
           384-bit random ECP group
                                                                   [RFC6989], Sec. 2.3 [RFC5903]
   21
           521-bit random ECP group
                                                                   [RFC6989], Sec. 2.3 [RFC5903]
   22
           1024-bit MODP Group with 160-bit Prime Order Subgroup [RFC6989], Sec. 2.2 [RFC5114]
   23
           2048-bit MODP Group with 224-bit Prime Order Subgroup [RFC6989], Sec. 2.2 [RFC5114]
   24
           2048-bit MODP Group with 256-bit Prime Order Subgroup [RFC6989], Sec. 2.2 [RFC5114]
           192-bit Random ECP Group
   25
                                                                   [RFC6989], Sec. 2.3 [RFC5114]
           224-bit Random ECP Group
   26
                                                                   [RFC6989], Sec. 2.3 [RFC5114]
   27
           brainpoolP224r1
                                                                   [RFC6989], Sec. 2.3 [RFC6954]
   28
           brainpoolP256r1
                                                                   [RFC6989], Sec. 2.3 [RFC6954]
                                                                   [RFC6989], Sec. 2.3 [RFC6954]
   29
           brainpoolP384r1
   30
           brainpoolP512r1
                                                                   [RFC6989], Sec. 2.3 [RFC6954]
   31
           Curve25519
                                                                   [RFC8031], Sec. 3.2 [RFC8031]
                                                                   [RFC8031], Sec. 3.2 [RFC8031]
   32
           Curve448
33-1023
           Unassigned
1024-65535 Reserved for Private Use
                                                                                        [RFC7296]
```

Transform Type 5 - Extended Sequence Numbers Transform IDs

```
Registration Procedure(s)
Expert Review
   Expert(s)
Tero Kivinen
   Reference
           [RFC7296]
  Available Formats
           [IMG]
           CSV
   Number
                                         Reference
                       Name
           No Extended Sequence Numbers [RFC7296]
     0
           Extended Sequence Numbers
                                         [RFC7296]
  2-65535 Reserved
                                         [RFC7296]
IKEv2 Identification Payload ID Types
   Registration Procedure(s)
Expert Review
   Expert(s)
Tero Kivinen
   Reference
           [RFC7296]
   Available Formats
           [IMG]
           ĊSV
    Value
              ID Type
                          Reference
      0
           Reserved
                          [RFC7296]
      1
           ID_IPV4_ADDR
                          [RFC7296]
      2
           ID FQDN
                          [RFC7296]
      3
           ID_RFC822_ADDR [RFC7296]
     4
           Unassigned
                          [RFC7296]
           ID_IPV6_ADDR
      5
                          [RFC7296]
     6-8
           Unassigned
                          [RFC7296]
           ID_DER_ASN1_DN [RFC7296]
     9
           ID_DER_ASN1_GN [RFC7296]
     10
     11
           ID_KEY_ID
                          [RFC7296]
           ID_FC_NAME
     12
                          [RFC4595]
           ID_NULL
    13
                          [RFC7619]
   14-200 Unassigned
   201-255 Private use
                          [RFC7296]
IKEv2 Certificate Encodings
   Registration Procedure(s)
Expert Review
   Expert(s)
Tero Kivinen
   Reference
           [RFC7296]
   Available Formats
```

[IMG] CSV

Available Formats [IMG] CSV

Value 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16-200	Certificate Encoding Reserved PKCS #7 wrapped X.509 certificate PGP Certificate DNS Signed Key X.509 Certificate - Signature Reserved Kerberos Token Certificate Revocation List (CRL) Authority Revocation List (ARL) SPKI Certificate X.509 Certificate - Attribute Raw RSA Key (DEPRECATED) Hash and URL of X.509 certificate Hash and URL of X.509 bundle OCSP Content Raw Public Key Unassigned Private use	[UNSPECIFIED [UNSPECIFIED [RFC7296] [UNSPECIFIED [RFC7296] [UNSPECIFIED [UNSPECIFIED [UNSPECIFIED [UNSPECIFIED [UNSPECIFIED [RFC7296]]]	
201 255	Trivace asc	[111 67230]	
IKEv2 Auth	entication Method		
Registr	ation Procedure(s)		
Expert Re	view		
Expert(s)		
Tero Kivi	nen		
Referen	ce [RFC7296]		
Availab	le Formats [IMG] CSV		
IKEv2 Noti Expert(Tero Kivi	nen	ırve ırve	Reference [RFC7296] [RFC7296] [RFC7296] [RFC7296] [RFC4754] [RFC4754] [RFC4754] [RFC6467] [RFC7619] [RFC7427]
Referen	ce [RFC7296]		
	[··· -·]		

```
Range
              Registration Procedures
     0-8191
              Expert Review
   8192-16383 Private use
     Value
              NOTIFY MESSAGES - ERROR TYPES
                                                    Reference
       0
              Reserved
                                              [RFC7296]
       1
              UNSUPPORTED CRITICAL PAYLOAD
                                              [RFC7296]
      2-3
              Reserved
                                              [RFC7296]
       4
              INVALID IKE SPI
                                              [RFC7296]
       5
              INVALID_MAJOR_VERSION
                                              [RFC7296]
       6
              Reserved
                                              [RFC7296]
       7
              INVALID SYNTAX
                                              [RFC7296]
       8
              Reserved
                                              [RFC7296]
       9
              INVALID MESSAGE ID
                                              [RFC7296]
       10
              Reserved
                                              [RFC7296]
       11
              INVALID_SPI
                                              [RFC7296]
     12-13
              Reserved
                                              [RFC7296]
       14
              NO_PROPOSAL_CHOSEN
                                              [RFC7296]
     15-16
              Reserved
                                              [RFC7296]
              INVALID_KE_PAYLOAD
       17
                                              [RFC7296]
              Reserved
     18-23
                                              [RFC7296]
       24
              AUTHENTICATION_FAILED
                                              [RFC7296]
     25-33
              RESERVED
                                              [RFC7296]
       34
              SINGLE PAIR REQUIRED
                                              [RFC7296]
       35
              NO_ADDITIONAL_SAS
                                              [RFC7296]
       36
              INTERNAL ADDRESS FAILURE
                                              [RFC7296]
       37
              FAILED_CP_REQUIRED
                                              [RFC7296]
       38
              TS UNACCEPTABLE
                                              [RFC7296]
       39
              INVALID SELECTORS
                                              [RFC7296]
       40
              UNACCEPTABLE ADDRESSES
                                              [RFC4555]
       41
              UNEXPECTED NAT DETECTED
                                              [RFC4555]
                                              [RFC5026]
       42
              USE_ASSIGNED_HoA
       43
              TEMPORARY_FAILURE
                                              [RFC7296]
              CHILD_SA_NOT_FOUND
       44
                                              [RFC7296]
       45
              INVALID GROUP ID
                                              [draft-yeung-g-ikev2]
       46
              AUTHORIZATION_FAILED
                                              [draft-yeung-g-ikev2]
    47-8191
              Unassigned
   8192-16383 Private use
                                              [RFC7296]
IKEv2 Notify Message Types - Status Types
   Expert(s)
 Tero Kivinen
   Reference
           [RFC7296]
   Available Formats
           [IMG]
           CSV
               Registration Procedures
      Range
   16384-40959 Expert Review
   40960-65535 Private use
      Value
                 NOTIFY MESSAGES - STATUS TYPES
                                                                           Reference
               INITIAL_CONTACT
      16384
                                                     [RFC7296]
               SET_WINDOW_SIZE
      16385
                                                      [RFC7296]
      16386
               ADDITIONAL_TS_POSSIBLE
                                                      [RFC7296]
               IPCOMP SUPPORTED
      16387
                                                      [RFC7296]
      16388
               NAT DETECTION SOURCE IP
                                                      [RFC7296]
               NAT_DETECTION_DESTINATION_IP
      16389
                                                      [RFC7296]
      16390
               COOKIE
                                                      [RFC7296]
               USE TRANSPORT MODE
                                                     [RFC7296]
```

16391

16392

HTTP_CERT_LOOKUP_SUPPORTED

[RFC7296]

```
16393
               REKEY_SA
                                                     [RFC7296]
               ESP TFC PADDING NOT SUPPORTED
                                                     [RFC7296]
      16394
               NON_FIRST_FRAGMENTS_ALSO
      16395
                                                     [RFC7296]
      16396
               MOBIKE SUPPORTED
                                                     [RFC4555]
               ADDITIONAL_IP4_ADDRESS
      16397
                                                     [RFC4555]
               ADDITIONAL_IP6_ADDRESS
      16398
                                                     [RFC4555]
      16399
               NO ADDITIONAL ADDRESSES
                                                     [RFC4555]
      16400
               UPDATE SA ADDRESSES
                                                     [RFC4555]
      16401
               COOKIE2
                                                     [RFC4555]
      16402
               NO NATS ALLOWED
                                                     [RFC4555]
      16403
               AUTH_LIFETIME
                                                     [RFC4478]
      16404
               MULTIPLE_AUTH_SUPPORTED
                                                     [RFC4739]
               ANOTHER_AUTH_FOLLOWS
      16405
                                                     [RFC4739]
      16406
               REDIRECT_SUPPORTED
                                                     [RFC5685]
      16407
               REDIRECT
                                                     [RFC5685]
      16408
               REDIRECTED FROM
                                                     [RFC5685]
      16409
               TICKET_LT_OPAQUE
                                                     [RFC5723]
      16410
               TICKET REQUEST
                                                     [RFC5723]
      16411
               TICKET ACK
                                                     [RFC5723]
      16412
               TICKET NACK
                                                     [RFC5723]
      16413
               TICKET OPAQUE
                                                     [RFC5723]
      16414
               LINK ID
                                                     [RFC5739]
               USE_WESP_MODE
      16415
                                                     [RFC5840]
      16416
               ROHC SUPPORTED
                                                     [RFC5857]
      16417
               EAP_ONLY_AUTHENTICATION
                                                     [RFC5998]
               CHILDLESS_IKEV2_SUPPORTED
      16418
                                                     [RFC6023]
               QUICK CRASH DETECTION
      16419
                                                     [RFC6290]
               IKEV2_MESSAGE_ID_SYNC_SUPPORTED
      16420
                                                     [RFC6311]
      16421
               IPSEC_REPLAY_COUNTER_SYNC_SUPPORTED [RFC6311]
               IKEV2 MESSAGE ID SYNC
      16422
                                                     [RFC6311]
      16423
               IPSEC REPLAY COUNTER SYNC
                                                     [RFC6311]
      16424
               SECURE PASSWORD METHODS
                                                     [RFC6467]
      16425
               PSK_PERSIST
                                                     [RFC6631]
      16426
               PSK_CONFIRM
                                                     [RFC6631]
               ERX_SUPPORTED
      16427
                                                     [RFC6867]
      16428
               IFOM CAPABILITY
                                                     [Frederic_Firmin][3GPP TS 24.303 v10.6.0 annex B.2]
      16429
               SENDER REQUEST ID
                                                     [draft-yeung-g-ikev2]
               IKEV2_FRAGMENTATION_SUPPORTED
      16430
                                                     [RFC7383]
      16431
               SIGNATURE HASH ALGORITHMS
                                                     [RFC7427]
      16432
               CLONE_IKE_SA_SUPPORTED
                                                     [RFC7791]
               CLONE_IKE_SA
      16433
                                                     [RFC7791]
      16434
               PUZZLE
                                                     [RFC8019]
      16435
               USE PPK
                                                     [draft-ietf-ipsecme-qr-ikev2]
               PPK IDENTITY
                                                     [draft-ietf-ipsecme-qr-ikev2]
      16436
      16437
               NO PPK AUTH
                                                     [draft-ietf-ipsecme-qr-ikev2]
   16438-40959 Unassigned
   40960-65535 Private use
                                                     [RFC7296]
IKEv2 Notification IPCOMP Transform IDs (Value 16387)
   Registration Procedure(s)
Expert Review
   Expert(s)
Tero Kivinen
   Reference
           [RFC7296]
   Available Formats
           [IMG]
           CSV
    Value Compression Type
                              Reference
           Reserved
                             [RFC7296]
```

```
1
           IPCOMP_OUI
                             [UNSPECIFIED]
      2
           IPCOMP_DEFLATE
                             [RFC2394]
           IPCOMP_LZS
IPCOMP_LZJH
     3
                             [RFC2395]
      4
                             [RFC3051]
    5-240 Unassigned
   241-255 Private use
                             [RFC7296]
IKEv2 Security Protocol Identifiers
   Registration Procedure(s)
Expert Review
   Expert(s)
Tero Kivinen
   Reference
           [RFC7296]
   Available Formats
           [IMG]
           ĊSV
  Protocol ID
                     Protocol
                                     Reference
               Reserved
                                     [RFC7296]
        1
               IKE
                                     [RFC7296]
        2
               ΑН
                                     [RFC7296]
        3
                                     [RFC7296]
               FC_ESP_HEADER
                                     [RFC4595]
        5
               FC_CT_AUTHENTICATION [RFC4595]
      6-200
               Unassigned
     201-255
               Private use
                                     [RFC7296]
IKEv2 Traffic Selector Types
   Registration Procedure(s)
Expert Review
   Expert(s)
Tero Kivinen
   Reference
           [RFC7296]
   Available Formats
           [IMG]
           CSV
    Value
                TS Type
                              Reference
    0-6
           Reserved
                               [RFC7296]
     7
           TS_IPV4_ADDR_RANGE [RFC7296]
           TS_IPV6_ADDR_RANGE [RFC7296]
      8
           TS_FC_ADDR_RANGE
                              [RFC4595]
   10-240 Unassigned
   241-255 Private use
                               [RFC7296]
IKEv2 Configuration Payload CFG Types
   Registration Procedure(s)
Expert Review
   Expert(s)
```

```
Tero Kivinen
Reference
```

[RFC7296]

Available Formats
[IMG]
CSV

Value CFG Type Reference
0 Reserved [RFC7296]
1 CFG_REQUEST [RFC7296]
2 CFG_REPLY [RFC7296]
3 CFG_SET [RFC7296]
4 CFG_ACK [RFC7296]
5-127 Unassigned
128-255 Private use [RFC7296]

IKEv2 Configuration Payload Attribute Types

Registration Procedure(s)

Expert Review

Expert(s)

Tero Kivinen

Reference

[RFC7296]

Note

Attribute Types with an "*" may be multi-valued on return only if multiple values were requested.

Available Formats
[IMG]
CSV

Value	Attribute Type	Multi-Valued	Length	
Reference			J	
0	Reserved			[RFC7296]
1	INTERNAL_IP4_ADDRESS	YES*	0 or 4 octets	[RFC7296]
2	INTERNAL_IP4_NETMASK	NO	0 or 4 octets	[RFC7296]
3	INTERNAL_IP4_DNS	YES	0 or 4 octets	[RFC7296]
4	INTERNAL_IP4_NBNS	YES	0 or 4 octets	[RFC7296]
5	Reserved			[RFC7296]
6	INTERNAL_IP4_DHCP	YES	0 or 4 octets	[RFC7296]
7	APPLICATION_VERSION	NO	0 or more	[RFC7296]
8	INTERNAL_IP6_ADDRESS	YES*	0 or 17 octets	[RFC7296]
9	Reserved			[RFC7296]
10	INTERNAL_IP6_DNS	YES	0 or 16 octets	[RFC7296]
11	Reserved			[RFC7296]
12	INTERNAL_IP6_DHCP	YES	0 or 16 octets	[RFC7296]
13	INTERNAL_IP4_SUBNET	YES	0 or 8 octets	[RFC7296]
14	SUPPORTED_ATTRIBUTES	NO	Multiple of 2	[RFC7296]
15	INTERNAL_IP6_SUBNET	YES	17 octets	[RFC7296]
16	MIP6_HOME_PREFIX	YES	0 or 21 octets	[RFC5026]
17	INTERNAL_IP6_LINK	NO	8 or more	[RFC5739]
18	INTERNAL_IP6_PREFIX	YES	17 octets	[RFC5739]
19	HOME_AGENT_ADDRESS	NO	16 or 20	
[http://www.3gpp.org/ftp/Specs/html-info/24302.htm][John_Meredith]				
20	P_CSCF_IP4_ADDRESS	YES	0 or 4 octets	[RFC7651]
21	P_CSCF_IP6_ADDRESS	YES	0 or 16 octets	[RFC7651]
22	FTT_KAT	NO	2 octets	[TS 24.302 12.6.0]
23	EXTERNAL_SOURCE_IP4_NAT_INFO	NO	0 or 6	[TS 29.139]

```
[Kimmo_Kymalainen]
               TIMEOUT_PERIOD_FOR_LIVENESS_CHECK NO
       24
                                                               0 or 4 octets [TS 24.302 13.4.0]
[Frederic_Firmin]
               INTERNAL DNS DOMAIN
                                                  YES
                                                                0 or more
                                                                               [draft-pauly-ipsecme-split-
dns]
               INTERNAL_DNSSEC_TA
                                                  YES
                                                                0 or more
                                                                                [draft-ietf-ipsecme-split-
       26
dns]
    27-16383
               Unassigned
   16384-32767 Private Use
                                                                                [RFC7296]
IKEv2 Gateway Identity Types
   Registration Procedure(s)
Expert Review
   Expert(s)
Tero Kivinen
   Reference
           [RFC5685]
   Available Formats
           [IMG]
           CSV
    Value
                                            Reference
                     Description
           Reserved
                                            [RFC5685]
           IPv4 address of the VPN gateway [RFC5685]
           IPv6 address of the VPN gateway [RFC5685]
           FQDN of the VPN gateway
                                            [RFC5685]
    4-240 Unassigned
   241-255 Reserved for Private Use
                                            [RFC5685]
ROHC Attribute Types
   Registration Procedure(s)
Expert Review
   Expert(s)
Tero Kivinen
   Reference
           [RFC5857]
   Available Formats
           [IMG]
           CSV
      Value
                                                             Format Reference
                           ROHC Attribute Type
        0
               Reserved
                                                                    [RFC5857]
        1
               Maximum Context Identifier (MAX_CID)
                                                             TV
                                                                    [RFC5857]
               ROHC Profile (ROHC_PROFILE)
        2
                                                             TV
                                                                    [RFC5857]
        3
               ROHC Integrity Algorithm (ROHC INTEG)
                                                             \mathsf{TV}
                                                                    [RFC5857]
        4
               ROHC ICV Length in bytes (ROHC_ICV_LEN)
                                                             TV
                                                                    [RFC5857]
        5
               Maximum Reconstructed Reception Unit (MRRU) TV
                                                                    [RFC5857]
     6-16383
               Unassigned
  16384-32767 Reserved for Private Use
                                                                    [RFC5857]
IKEv2 Secure Password Methods
```

Registration Procedure(s)

Expert Review

```
Expert(s)
```

Tero Kivinen

Reference

[RFC6467]

Available Formats [IMG] CSV

Value	Description	Reference
0	Reserved	[RFC6467]
1	PACE	[RFC6631]
2	AugPAKE	[RFC6628]
3	Secure PSK Authentication	[RFC6617]
4-1023	Unassigned	
1024-65535	Reserved for Private Use	[RFC6467]

IKEv2 Hash Algorithms

Registration Procedure(s)

Expert Review

Expert(s)

Tero Kivinen

Reference

[RFC7427]

Available Formats [IMG] CSV

Value	Hash Algorithm	Reference
0	Reserved	[RFC7427]
1	SHA1	[RFC7427]
2	SHA2-256	[RFC7427]
3	SHA2-384	[RFC7427]
4	SHA2-512	[RFC7427]
5	Identity	[RFC8420]
6-1023	Unassigned	
1024-65535	Reserved for Private Use	[RFC7427]

People

ID	Name	Contact URI	Last Updated
[Frederic_Firmin]	Frederic Firmin	<pre>mailto:frederic.firmin&etsi.org</pre>	2016-03-08
[John_Meredith]	John Meredith	<pre>mailto:john.meredith&etsi.org</pre>	2010-05-17
[Kimmo_Kymalainen]	Kimmo Kymalainen	<pre>mailto:kimmo.kymalainen&etsi.org</pre>	2015-12-02
[Matt_Ball]	Matt Ball	mailto:matt.ball&ieee.org	2007-10-11