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Post-Quantum Cryptography in OpenPGP
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Abstract

This document defines a post-quantum public key algorithm extension for the OpenPGP protocol, extending [RFC9580]. Given the generally assumed threat of a cryptographically relevant quantum computer, this extension provides a basis for long-term secure OpenPGP signatures and ciphertexts. Specifically, it defines composite public key encryption based on ML-KEM (formerly CRYSTALS-Kyber), composite public key signatures based on ML-DSA (formerly CRYSTALS-Dilithium), both in combination with elliptic curve cryptography, and SLH-DSA (formerly SPHINCS+) as a standalone public key signature scheme.

About This Document

This note is to be removed before publishing as an RFC.

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Source for this draft and an issue tracker can be found at
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1. Introduction

The OpenPGP protocol [RFC9580] supports various traditional public key algorithms based on the factoring or discrete logarithm problem. As the security of algorithms based on these mathematical problems is endangered by the advent of quantum computers, there is a need to extend OpenPGP with algorithms that remain secure in the presence of a cryptographically relevant quantum computer (CRQC), i.e., a quantum computer with sufficient capacity to break traditional public key cryptography.

Such cryptographic algorithms are referred to as post-quantum cryptography (PQC). The algorithms defined in this extension were chosen for standardization by the US National Institute of Standards and Technology (NIST) in mid-2022 [NISTIR-8413] as the result of the NIST Post-Quantum Cryptography Standardization process initiated in 2016 [NIST-PQC]. Namely, these are ML-KEM [FIPS-203] as a Key Encapsulation Mechanism (KEM), a KEM being a modern building block for public key encryption, and ML-DSA [FIPS-204] as well as SLH-DSA [FIPS-205] as signature schemes.

For the two ML-* schemes, this document follows the conservative strategy to deploy post-quantum in combination with traditional schemes such that the security is retained even if all schemes but one in the combination are broken. Such combinations are referred to as multi-algorithm or "post-quantum/traditional" (PQ/T) hybrid algorithms. In contrast, the stateless hash-based signature scheme SLH-DSA is considered to be sufficiently well understood with respect to its security assumptions in order to be used standalone. To this end, this document specifies the following new set: SLH-DSA

standalone and the two ML-* as composite with ECC-based KEM and digital signature schemes. Here, the term "composite" indicates that any data structure or algorithm pertaining to the combination of the two components appears as a single data structure or algorithm from the protocol perspective.

This document extends [RFC9580] by adding KEM and signature algorithms specified in Section 4, Section 5, and Section 6 and specifies the conventions for interoperability between compliant OpenPGP implementations.

1.1. Conventions used in this Document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 [RFC2119] [RFC8174] when, and only when, they appear in all capitals, as shown here.

In wire format descriptions, the operator "||" is used to indicate concatenation of groups of octets.

1.1.1. Terminology for Multi-Algorithm Schemes

The terminology in this document is oriented towards the definitions in [RFC9794]. Specifically, the terms "multi-algorithm", "composite" and "non-composite" are used in correspondence with the definitions therein. The abbreviation "PQ" is used for post-quantum schemes. To denote the combination of post-quantum and traditional schemes, the abbreviation "PQ/T" is used. The short form "PQ(/T)" stands for PQ or PQ/T.

1.2. Post-Quantum Cryptography

This section describes the individual post-quantum cryptographic schemes. All schemes listed here are designed to provide security in the presence of a CRQC. However, the mathematical problems on which the two ML-* schemes and SLH-DSA are based, are fundamentally different, and accordingly the level of trust commonly placed in them as well as their performance characteristics vary.

1.2.1. ML-KEM

ML-KEM [FIPS-203] is based on the hardness of solving the Learning with Errors problem in module lattices (MLWE). The scheme is believed to provide security against cryptanalytic attacks based on classical as well as quantum algorithms. This specification defines ML-KEM only in composite combination with ECDH encryption schemes in order to provide a pre-quantum security fallback.

1.2.2. ML-DSA

ML-DSA [FIPS-204] is a signature scheme that, like ML-KEM, is based on the hardness of solving the Learning With Errors problem and a variant of the Short Integer Solution problem in module lattices (MLWE and SelfTargetMSIS). Accordingly, this specification only defines ML-DSA in composite combination with EdDSA signature schemes.

1.2.3. SLH-DSA

SLH-DSA [FIPS-205] is a stateless hash-based signature scheme. Its security relies on the hardness of finding preimages for cryptographic hash functions. This feature is generally considered to be a high security guarantee. Therefore, this specification defines SLH-DSA as a standalone signature scheme.

In deployments the performance characteristics of SLH-DSA should be taken into account. The performance characteristics of this scheme are discussed in Section 10.1.

1.3. Elliptic Curve Cryptography

ECDH encryption is defined here as a KEM via X25519 and X448 which are defined in [RFC7748]. EdDSA as defined in [RFC8032] is used as the elliptic curve-based digital signature scheme.

1.4. Standalone and Multi-Algorithm Schemes

This section provides a categorization of the new algorithms and their combinations.

1.4.1. Standalone and Composite Multi-Algorithm Schemes

This specification introduces new cryptographic schemes, which can be categorized as follows:

- * PQ/T multi-algorithm public key encryption, namely a composite combination of ML-KEM with ECDH,

- * PQ/T multi-algorithm digital signature, namely composite combinations of ML-DSA with EdDSA,
- * PQ digital signature, namely SLH-DSA as a standalone cryptographic algorithm.

For each of the composite schemes, this specification mandates that the consuming party successfully perform the cryptographic algorithms for each of the component schemes used in a cryptographic message, for the message to be deciphered and considered as valid. This means that all component signatures must be verified successfully to achieve a successful verification of the composite signature. In the case of the composite public key decryption, each of the component KEM decapsulation operations must succeed.

1.4.2. Non-Composite Algorithm Combinations

As the OpenPGP protocol [RFC9580] allows for multiple signatures to be applied to a single message, it is also possible to realize non-composite combinations of signatures. Furthermore, multiple OpenPGP signatures may be combined on the application layer. These latter two cases realize non-composite combinations of signatures. Section 3.3 specifies how implementations should handle the verification of such combinations of signatures.

Furthermore, the OpenPGP protocol also allows parallel encryption to different keys by using multiple Public Key Encrypted Session Key (PKESK) packets, thus realizing non-composite multi-algorithm public key encryption.

2. Supported Public Key Algorithms

This section specifies the composite ML-KEM + ECDH and ML-DSA + EdDSA schemes as well as the standalone SLH-DSA signature scheme. All of these schemes are fully specified via their algorithm ID, that is, they are not parametrized.

2.1. Algorithm Specifications

For signatures, the following (composite) signature schemes are specified:

ID	Algorithm	Requirement	Definition
30	ML-DSA-65+Ed25519	MUST	Section 5.2
31	ML-DSA-87+Ed448	SHOULD	Section 5.2
32	SLH-DSA-SHAKE-128s	MAY	Section 6.1
33	SLH-DSA-SHAKE-128f	MAY	Section 6.1
34	SLH-DSA-SHAKE-256s	MAY	Section 6.1

Table 1: Signature algorithm specifications

For encryption, the following composite KEM schemes are specified:

ID	Algorithm	Requirement	Definition
35	ML-KEM-768+X25519	MUST	Section 4.2
36	ML-KEM-1024+X448	SHOULD	Section 4.2

Table 2: KEM algorithm specifications

A conformant implementation MUST implement ML-DSA-65+Ed25519 and ML-KEM-768+X25519. It SHOULD also implement ML-DSA-87+Ed448 and ML-KEM-1024+X448, but may omit them if targeting a highly constrained environment. An implementation MAY implement any of the SLH-DSA algorithms.

The specified algorithm IDs offer two security levels for each scheme, for a tradeoff between security and performance. The SLH-DSA algorithms offer an additional performance tradeoff between signature generation time ("128f" is faster) and signature size ("128s" is smaller) at the lower of the two SLH-DSA security levels. The larger parameter sets of ML-DSA and ML-KEM (Algorithm IDs 31 and 36) are recommended to support interoperability, but they are not required for compliance. Implementations targeting highly constrained environments may omit these larger variants.

For SLH-DSA-SHAKE-256, only the "small" variant is offered to contain signature size. See also Section 10.1 for further considerations about parameter choices.

3. Algorithm Combinations

3.1. Composite KEMs

The ML-KEM + ECDH public key encryption involves both the ML-KEM and an ECDH KEM in an a priori non-separable manner. This is achieved via KEM combination, that is, both key encapsulations/decapsulations are performed in parallel, and the resulting key shares are fed into a key combiner to produce a single shared secret for message encryption.

As explained in Section 1.4.2, the OpenPGP protocol inherently supports parallel encryption to different keys. Note that the confidentiality of a message is not post-quantum secure when encrypting to different keys unless all keys support PQ(/T) encryption schemes.

3.2. Composite Signatures

The ML-DSA + EdDSA signature consists of independent ML-DSA and EdDSA signatures, and an implementation MUST successfully validate both signatures to state that the ML-DSA + EdDSA signature is valid.

3.3. Multiple Signatures

The OpenPGP message format allows multiple signatures of a message, that is, the attachment of multiple signature packets.

An implementation MAY sign a message with a traditional key and a PQ(/T) key from the same sender. This ensures backwards compatibility due to Section 5.2.5 of [RFC9580], since a legacy implementation without PQ(/T) support can fall back on the traditional signature.

Newer implementations with PQ(/T) support MAY ignore the traditional signature(s) during validation.

Implementations SHOULD consider the message correctly signed if at least one of the non-ignored signatures validates successfully. This is consistent with Section 5.2.5 of [RFC9580].

3.4. ECC Requirements

Even though the zero point, also called the point at infinity, may occur as a result of arithmetic operations on points of an elliptic curve, it MUST NOT appear in any ECC data structure defined in this document. An implementation MAY signal an error if this condition is encountered.

Furthermore, when performing the explicitly listed operations in Section 4.1.1.1 or Section 4.1.1.2 it is REQUIRED to follow the specification and security advisory mandated from the respective elliptic curve specification [RFC7748].

3.5. Key Version Binding

All PQ(/T) asymmetric algorithms are to be used only in v6 (and newer) keys and certificates, with the single exception of ML-KEM-768+X25519 (algorithm ID 35), which is also allowed in v4 encryption-capable subkeys.

4. Composite KEM Schemes

4.1. Building Blocks

4.1.1. ECDH KEM

In this section, the encryption, decryption, and data formats for the ECDH component of the composite algorithms are defined.

Table 3 describes the ECDH KEM parameters and artifact lengths. The artifacts in Table 3 follow the encodings described in [RFC7748].

	X25519	X448
Algorithm ID reference	35	36
ECDH KEM	X25519-KEM (Section 4.1.1.1)	X448-KEM (Section 4.1.1.2)
ECDH public key	32 octets	56 octets
ECDH secret key	32 octets	56 octets
ECDH ephemeral	32 octets	56 octets
ECDH key share	32 octets	56 octets

Table 3: Montgomery curve parameters and artifact lengths

The various procedures to perform the operations of an ECDH KEM are defined in the following subsections. Specifically, each of these subsections defines the instances of the following operations:

```
(ecdhCipherText, ecdhKeyShare) <- ECDH-KEM.Encaps(ecdhPublicKey)
```

and

```
(ecdhKeyShare) <- ECDH-KEM.Decaps(ecdhCipherText, ecdhSecretKey)
```

To instantiate ECDH-KEM, one must select a parameter set from Table 3.

4.1.1.1. X25519-KEM

The encapsulation and decapsulation operations of X25519-KEM are described using the function `X25519()` and encodings defined in [RFC7748]. The `ecdhSecretKey` is denoted as r , the `ecdhPublicKey` as R , they are subject to the equation $R = X25519(r, U(P))$. Here, $U(P)$ denotes the u -coordinate of the base point of Curve25519.

The operation `X25519-KEM.Encaps()` is defined as follows:

1. Generate an ephemeral key pair $\{v, V\}$ via $V = X25519(v, U(P))$ where v is a randomly generated octet string with a length of 32 octets
2. Compute the shared coordinate $X = X25519(v, R)$ where R is the recipient's public key `ecdhPublicKey`
3. Set the output `ecdhCipherText` to V
4. Set the output `ecdhKeyShare` to X

The operation `X25519-KEM.Decaps()` is defined as follows:

1. Compute the shared coordinate $X = X25519(r, V)$, where r is the `ecdhSecretKey` and V is the `ecdhCipherText`
2. Set the output `ecdhKeyShare` to X

4.1.1.2. X448-KEM

The encapsulation and decapsulation operations of X448-KEM are described using the function `X448()` and encodings defined in [RFC7748]. The `ecdhSecretKey` is denoted as r , the `ecdhPublicKey` as R , they are subject to the equation $R = X448(r, U(P))$. Here, $U(P)$ denotes the u -coordinate of the base point of Curve448.

The operation `X448-KEM.Encaps()` is defined as follows:

1. Generate an ephemeral key pair $\{v, V\}$ via $V = X448(v, U(P))$ where v is a randomly generated octet string with a length of 56 octets

2. Compute the shared coordinate $X = X448(v, R)$ where R is the recipient's public key `ecdHPublicKey`
3. Set the output `ecdHCipherText` to V
4. Set the output `ecdHKeyShare` to X

The operation `X448-KEM.Decaps()` is defined as follows:

1. Compute the shared coordinate $X = X448(r, V)$, where r is the `ecdHSecretKey` and V is the `ecdHCipherText`
2. Set the output `ecdHKeyShare` to X

4.1.2. ML-KEM

ML-KEM features the following operations:

```
(mlkemCipherText, mlkemKeyShare) <- ML-KEM.Encaps(mlkemPublicKey)
```

and

```
(mlkemKeyShare) <- ML-KEM.Decaps(mlkemCipherText, mlkemSecretKey)
```

The above are the operations `ML-KEM.Encaps` and `ML-KEM.Decaps` defined in [FIPS-203]. Note that `mlkemPublicKey` is the encapsulation and `mlkemSecretKey` is the decapsulation key.

ML-KEM has the parametrization with the corresponding artifact lengths in octets as given in Table 4. All artifacts are encoded as defined in [FIPS-203].

	ML-KEM-768	ML-KEM-1024
Algorithm ID reference	35	36
Public (encapsulation) key	1184 octets	1568 octets
Secret (decapsulation) key	64 octets	64 octets
Ciphertext	1088 octets	1568 octets
Key share (shared secret key)	32 octets	32 octets

Table 4: ML-KEM parameters and artifact lengths

To instantiate ML-KEM, one must select a parameter set from the column "ML-KEM" of Table 4.

4.2. Composite Encryption Schemes with ML-KEM

Table 2 specifies the following ML-KEM + ECDH composite public key encryption schemes:

Algorithm ID reference	ML-KEM	ECDH-KEM
35	ML-KEM-768	X25519-KEM
36	ML-KEM-1024	X448-KEM

Table 5: ML-KEM + ECDH composite schemes

The ML-KEM + ECDH composite public key encryption schemes are built according to the following principal design:

- * The ML-KEM encapsulation algorithm is invoked to create an ML-KEM ciphertext together with an ML-KEM symmetric key share.
- * The encapsulation algorithm of an ECDH KEM, namely X25519-KEM or X448-KEM, is invoked to create an ECDH ciphertext together with an ECDH symmetric key share.
- * A Key Encryption Key (KEK) is computed as the output of a key combiner that receives as input both of the above created symmetric key shares, the ECDH ciphertext, the ECDH public key, and the protocol binding information.
- * The session key for content encryption, generated as specified in [RFC9580], is then wrapped as described in [RFC3394] using AES-256 as algorithm and the KEK as key.
- * The PKESK packet's algorithm-specific parts are made up of the ML-KEM ciphertext, the ECDH ciphertext, and the wrapped session key.

4.2.1. Key Combiner

For the composite KEM schemes defined in Table 2 the following procedure MUST be used to compute the KEK that wraps a session key. The construction is a key derivation function compliant to the QSF/X-Wing construction in [BCD_24], the generalization of which is analyzed in [CHHKM]. It is given by the following algorithm, which computes the key encryption key KEK that is used to wrap (that is,

encrypt) the session key.

```
// multiKeyCombine(
//     mlkemKeyShare, ecdhKeyShare,
//     ecdhCipherText, ecdhPublicKey,
//     algId
// )
//
// Input:
// mlkemKeyShare    - the ML-KEM key share encoded as an octet string
// ecdhKeyShare     - the ECDH key share encoded as an octet string
// ecdhCipherText   - the ECDH ciphertext encoded as an octet string
// ecdhPublicKey    - the ECDH public key of the recipient as an
//                   octet string
// algId            - the OpenPGP algorithm ID of the public key
//                   encryption algorithm

KEK = SHA3-256(
    mlkemKeyShare || ecdhKeyShare ||
    ecdhCipherText || ecdhPublicKey ||
    algId || domSep || len(domSep)
)
return KEK
```

The value domSep is a constant set to the UTF-8 encoding of the string "OpenPGPCompositeKDFv1", that is:

```
domSep = 4F 70 65 6E 50 47 50 43 6F 6D 70 6F 73 69 74 65 4B 44 46 76 31
```

Here len(domSep) is the single octet with the value equal to the octet-length of domSep, that is, decimal 21.

4.2.2. Key Generation Procedure

The implementation MUST generate the ML-KEM and the ECDH component keys independently. ML-KEM key generation follows the specification in [FIPS-203], and the artifacts are encoded as fixed-length octet strings whose sizes are listed in Section 4.1.2. ECDH key generation follows the specification in [RFC7748], and the artifacts are encoded as fixed-length octet strings whose sizes are listed in Table 3.

4.2.3. Encryption Procedure

The procedure to perform public key encryption with an ML-KEM + ECDH composite scheme is as follows:

1. Take the recipient's authenticated public key packet pkComposite and sessionKey as input

2. Parse the algorithm ID from `pkComposite` and set it as `algId`
3. Extract the `ecdhPublicKey` and `mlkemPublicKey` component from the algorithm specific data encoded in `pkComposite` with the format specified in Section 4.3.2.
4. Instantiate the ECDH-KEM and the ML-KEM depending on the algorithm ID according to Table 5
5. Compute `(ecdhCipherText, ecdhKeyShare) = ECDH-KEM.Encaps(ecdhPublicKey)`
6. Compute `(mlkemCipherText, mlkemKeyShare) = ML-KEM.Encaps(mlkemPublicKey)`
7. Compute `KEK = multiKeyCombine(mlkemKeyShare, ecdhKeyShare, ecdhCipherText, ecdhPublicKey, algId)` as defined in Section 4.2.1
8. Compute `C = AESKeyWrap(KEK, sessionKey)` with AES-256 as per [RFC3394] that includes a 64 bit integrity check
9. Output the algorithm specific part of the PKESK as `ecdhCipherText || mlkemCipherText || len(C, symAlgId) (|| symAlgId) || C`, where both `symAlgId` and `len(C, symAlgId)` are single octet fields, `symAlgId` denotes the symmetric algorithm ID used and is present only for a v3 PKESK, and `len(C, symAlgId)` denotes the combined octet length of the fields specified as the arguments.

4.2.4. Decryption Procedure

The procedure to perform public key decryption with an ML-KEM + ECDH composite scheme is as follows:

1. Take the matching PKESK and own secret key packet as input
2. From the PKESK extract the algorithm ID as `algId` and the wrapped session key as `encryptedKey`
3. Check that the own and the extracted algorithm ID match
4. Parse the `ecdhSecretKey` and `mlkemSecretKey` from the algorithm specific data of the own secret key encoded in the format specified in Section 4.3.2
5. Instantiate the ECDH-KEM and the ML-KEM depending on the algorithm ID according to Table 5

6. Parse `ecdhCipherText`, `mlkemCipherText`, and `C` from `encryptedKey` encoded as `ecdhCipherText || mlkemCipherText || len(C, symAlgId) (|| symAlgId) || C` as specified in Section 4.3.1, where `symAlgId` is present only in the case of a v3 PKESK.
7. Compute `(ecdhKeyShare) = ECDH-KEM.Decaps(ecdhCipherText, ecdhSecretKey)`
8. Compute `(mlkemKeyShare) = ML-KEM.Decaps(mlkemCipherText, mlkemSecretKey)`
9. Compute `KEK = multiKeyCombine(mlkemKeyShare, ecdhKeyShare, ecdhCipherText, ecdhPublicKey, algId)` as defined in Section 4.2.1
10. Compute `sessionKey = AESKeyUnwrap(KEK, C)` with AES-256 as per [RFC3394], aborting if the 64 bit integrity check fails
11. Output `sessionKey`

4.3. Packet Specifications

4.3.1. Public Key Encrypted Session Key Packets (Packet Type ID 1)

The algorithm-specific fields consist of the output of the encryption procedure described in Section 4.2.3:

- * A fixed-length octet string representing an ECDH ephemeral public key in the format associated with the curve as specified in Section 4.1.1.
- * A fixed-length octet string of the ML-KEM ciphertext, whose length depends on the algorithm ID as specified in Table 4.
- * A one-octet size of the following fields.
- * Only in the case of a v3 PKESK packet: a one-octet symmetric algorithm identifier.
- * The wrapped session key represented as an octet string.

Note that like in the case of the algorithms X25519 and X448 specified in [RFC9580], for the ML-KEM composite schemes, in the case of a v3 PKESK packet, the symmetric algorithm identifier is not encrypted. Instead, it is placed in plaintext after the `mlkemCipherText` and before the length octet preceding the wrapped session key. In the case of v3 PKESK packets for ML-KEM composite schemes, the symmetric algorithm used MUST be AES-128, AES-192 or AES-256 (algorithm ID 7, 8 or 9).

In the case of a v3 PKESK, a receiving implementation MUST check if the length of the unwrapped symmetric key matches the symmetric algorithm identifier, and abort if this is not the case.

Implementations MUST NOT use the obsolete Symmetrically Encrypted Data packet (Packet Type ID 9) to encrypt data protected with the algorithms described in this document.

4.3.2. Key Material Packets

The composite ML-KEM-768 + X25519 (algorithm ID 35) MUST be used only with v4 or v6 keys, as defined in [RFC9580], or newer versions defined by updates of that document.

The composite ML-KEM-1024 + X448 (algorithm ID 36) MUST be used only with v6 keys, as defined in [RFC9580], or newer versions defined by updates of that document.

4.3.2.1. Public Key Packets (Packet Type IDs 6 and 14)

The algorithm-specific public key is this series of values:

- * A fixed-length octet string representing an ECC public key, in the point format associated with the curve specified in Section 4.1.1.
- * A fixed-length octet string containing the ML-KEM public key, whose length depends on the algorithm ID as specified in Table 4.

4.3.2.2. Secret Key Packets (Packet Type IDs 5 and 7)

The algorithm-specific secret key is these two values:

- * A fixed-length octet string of the encoded ECDH secret key, whose encoding and length depend on the algorithm ID as specified in Section 4.1.1.
- * A fixed-length octet string containing the ML-KEM secret key in seed format, whose length is 64 octets (compare Table 4). The seed format is defined in accordance with Section 3.3 of

[FIPS-203]. Namely, the secret key is given by the concatenation of the values of *d* and *z*, generated in steps 1 and 2 of ML-KEM.KeyGen [FIPS-203], each of a length of 32 octets. Upon parsing the secret key format, or before using the secret key, for the expansion of the key, the function ML-KEM.KeyGen_internal [FIPS-203] has to be invoked with the parsed values of *d* and *z* as input.

5. Composite Signature Schemes

5.1. Building Blocks

5.1.1. EdDSA-Based Signatures

Throughout this specification EdDSA refers to the PureEdDSA variant defined in [RFC8032]. The context is always empty.

To sign and verify with EdDSA the following operations are defined:

```
(eddsaSignature) <- EdDSA.Sign(eddsaSecretKey, dataDigest)
```

and

```
(verified) <- EdDSA.Verify(eddsaPublicKey, dataDigest, eddsaSignature)
```

The public and secret key, as well as the signature MUST be encoded according to [RFC8032] as fixed-length octet strings. The following table describes the EdDSA parameters and artifact lengths:

	Ed25519	Ed448
Algorithm ID reference	30	31
Public key	32 octets	57 octets
Secret key	32 octets	57 octets
Signature	64 octets	114 octets

Table 6: EdDSA parameters and artifact lengths

5.1.2. ML-DSA Signatures

Throughout this specification ML-DSA refers to the default pure and hedged version of ML-DSA defined in [FIPS-204].

ML-DSA signature generation is performed using the default hedged version of the ML-DSA.Sign algorithm, as specified in [FIPS-204], with an empty context string ctx. That is, to sign with ML-DSA the following operation is defined:

```
(mldsaSignature) <- ML-DSA.Sign(mldsaSecretKey, dataDigest)
```

ML-DSA signature verification is performed using the ML-DSA.Verify algorithm, as specified in [FIPS-204], with an empty context string ctx. That is, to verify with ML-DSA the following operation is defined:

```
(verified) <- ML-DSA.Verify(mldsaPublicKey, dataDigest, mldsaSignature)
```

ML-DSA has the parametrization with the corresponding artifact lengths in octets as given in Table 7. All artifacts are encoded as defined in [FIPS-204].

	ML-DSA-65	ML-DSA-87
Algorithm ID reference	30	31
Public key	1952 octets	2592 octets
Secret (Private) key	32 octets	32 octets
Signature	3309 octets	4627 octets

Table 7: ML-DSA parameters and artifact lengths

5.2. Composite Signature Schemes with ML-DSA

5.2.1. Key Generation Procedure

The implementation MUST generate the ML-DSA and the EdDSA component keys independently. ML-DSA key generation follows the specification in [FIPS-204], and the artifacts are encoded as fixed-length octet strings whose sizes are listed in Section 5.1.2. EdDSA key generation follows the specification in [RFC8032], and the artifacts are encoded as fixed-length octet strings whose sizes are listed in Section 5.1.1.

5.2.2. Signature Generation

To sign a message M with ML-DSA + EdDSA the following sequence of operations has to be performed:

1. Generate dataDigest according to Section 5.2.4 of [RFC9580]
2. Create the EdDSA signature over dataDigest with EdDSA.Sign() from Section 5.1.1
3. Create the ML-DSA signature over dataDigest with ML-DSA.Sign() from Section 5.1.2
4. Encode the EdDSA and ML-DSA signatures according to the packet structure given in Section 5.3.1

5.2.3. Signature Verification

To verify an ML-DSA + EdDSA signature the following sequence of operations has to be performed:

1. Verify the EdDSA signature with EdDSA.Verify() from Section 5.1.1
2. Verify the ML-DSA signature with ML-DSA.Verify() from Section 5.1.2

As specified in Section 5 an implementation MUST validate both signatures, that is, EdDSA and ML-DSA, successfully to state that a composite ML-DSA + EdDSA signature is valid.

5.3. Packet Specifications

5.3.1. Signature Packet (Packet Type ID 2)

The composite ML-DSA + EdDSA schemes MUST be used only with v6 signatures, as defined in [RFC9580], or newer versions defined by updates of that document.

The algorithm-specific v6 signature parameters for ML-DSA + EdDSA signatures consist of:

- * A fixed-length octet string representing the EdDSA signature, whose length depends on the algorithm ID as specified in Table 6.
- * A fixed-length octet string of the ML-DSA signature value, whose length depends on the algorithm ID as specified in Table 7.

A composite ML-DSA + EdDSA signature MUST use a hash algorithm with a digest size of at least 256 bits for the computation of the message digest. A verifying implementation MUST reject any composite ML-DSA + EdDSA signature that uses a hash algorithm with a smaller digest size.

5.3.2. Key Material Packets

The composite ML-DSA + EdDSA schemes MUST be used only with v6 keys, as defined in [RFC9580], or newer versions defined by updates of that document.

5.3.2.1. Public Key Packets (Packet Type IDs 6 and 14)

The algorithm-specific public key for ML-DSA + EdDSA keys is this series of values:

- * A fixed-length octet string representing the EdDSA public key, whose length depends on the algorithm ID as specified in Table 6.
- * A fixed-length octet string containing the ML-DSA public key, whose length depends on the algorithm ID as specified in Table 7.

5.3.2.2. Secret Key Packets (Packet Type IDs 5 and 7)

The algorithm-specific secret key for ML-DSA + EdDSA keys is this series of values:

- * A fixed-length octet string representing the EdDSA secret key, whose length depends on the algorithm ID as specified in Table 6.
- * A fixed-length octet string containing the ML-DSA secret key in seed format, whose length is 32 octets (compare Table 7). The seed format is defined in accordance with Section 3.6.3 of [FIPS-204]. Namely, the secret key is given by the value ξ generated in step 1 of ML-DSA.KeyGen [FIPS-204]. Upon parsing the secret key format, or before using the secret key, for the expansion of the key, the function ML-DSA.KeyGen_internal [FIPS-204] has to be invoked with the parsed value of ξ as input.

6. SLH-DSA

Throughout this specification SLH-DSA refers to the default pure and hedged version of SLH-DSA defined in [FIPS-205].

6.1. The SLH-DSA Algorithms

The following table lists the group of algorithm code points for the SLH-DSA signature scheme and the corresponding artifact lengths. This group of algorithms is henceforth referred to as "SLH-DSA code points".

	SLH-DSA-SHAKE-128s	SLH-DSA-SHAKE-128f	SLH-DSA-SHAKE-256s
Algorithm ID reference	32	33	34
Public key (PK)	32 octets	32 octets	64 octets
Secret key (SK)	64 octets	64 octets	128 octets
Signature	7856 octets	17088 octets	29792 octets

Table 8: SLH-DSA code points and the corresponding artifact lengths.

6.1.1. Key Generation

SLH-DSA key generation is performed via the algorithm `slh_keygen` as specified in [FIPS-205], and the artifacts are encoded as fixed-length octet strings whose sizes are listed in Section 6.1.

6.1.2. Signature Generation

SLH-DSA signature generation is performed using the default hedged version of the `slh_sign` algorithm, as specified in [FIPS-205], with an empty context string `ctx`.

6.1.3. Signature Verification

SLH-DSA signature verification is performed using the `slh_verify` algorithm, as specified in [FIPS-205], with an empty context string `ctx`.

6.2. Packet Specifications

6.2.1. Signature Packet (Packet Type ID 2)

The SLH-DSA algorithms **MUST** be used only with v6 signatures, as defined in Section 5.2.3 of [RFC9580].

The algorithm-specific part of a signature packet for an SLH-DSA code point consists of:

- * A fixed-length octet string of the SLH-DSA signature value, whose length depends on the algorithm ID in the format specified in Table 8.

An SLH-DSA signature MUST use a hash algorithm with a digest size of at least 256 bits for the computation of the message digest. A verifying implementation MUST reject any SLH-DSA signature that uses a hash algorithm with a smaller digest size.

6.2.2. Key Material Packets

The SLH-DSA code points MUST be used only with v6 keys, as defined in [RFC9580], or newer versions defined by updates of that document.

6.2.2.1. Public Key Packets (Packet Type IDs 6 and 14)

The algorithm-specific part of the public key consists of:

- * A fixed-length octet string containing the SLH-DSA public key, whose length depends on the algorithm ID as specified in Table 8.

6.2.2.2. Secret Key Packets (Packet Type IDs 5 and 7)

The algorithm-specific part of the secret key consists of:

- * A fixed-length octet string containing the SLH-DSA secret key, whose length depends on the algorithm ID as specified in Table 8.

7. Notes on Algorithms

7.1. Symmetric Algorithms for SEIPD Packets

Implementations MUST implement AES-256. An implementation SHOULD use AES-256 in the case of a v1 Symmetrically Encrypted and Integrity Protected Data (SEIPD) packet, or AES-256 with any available AEAD mode in the case of a v2 SEIPD packet, if all recipient certificates indicate support for it (explicitly or implicitly). This requirement is not specified as a MUST, because it would render messages not using AES-256 invalid and subject to rejection upon decryption; however, a receiving implementation may not have access to all recipient certificates and therefore cannot reliably enforce such a requirement.

A certificate that contains a PQ(/T) key SHOULD include AES-256 in the "Preferred Symmetric Ciphers for v1 SEIPD" subpacket and SHOULD include the pair AES-256 with OCB in the "Preferred AEAD Ciphersuites" subpacket to make support for AES-256 and AES-256 with OCB explicit.

If AES-256 is not explicitly in the list of the "Preferred Symmetric Ciphers for v1 SEIPD" subpacket, and if the certificate contains a PQ(/T) key, it is implicitly at the end of the list. This is justified since AES-256 is mandatory to implement. If AES-128 is also implicitly added to the list, it is added after AES-256.

If the pair AES-256 with OCB is not explicitly in the list of the "Preferred AEAD Ciphersuites" subpacket, and if the certificate contains a PQ(/T) key, it is implicitly at the end of the list. This is justified since AES-256 and OCB are mandatory to implement. If the pair AES-128 with OCB is also implicitly added to the list, it is added after the pair AES-256 with OCB.

7.2. Hash Algorithms for Key Binding Signatures

Subkey binding signatures (Signature Type 0x18) over algorithms described in this document MUST NOT be made with MD5, SHA-1, or RIPEMD-160. A receiving implementation MUST treat such a signature as invalid.

8. Migration Considerations

The post-quantum KEM algorithms defined in Table 2 and the signature algorithms defined in Table 1 are a set of new public key algorithms that extend the algorithm selection of [RFC9580]. During the transition period, the post-quantum algorithms will not be supported by all clients. Therefore, various migration considerations must be taken into account, in particular backwards compatibility to existing implementations that have not yet been updated to support the post-quantum algorithms.

8.1. Encrypting to Traditional and PQ(/T) Keys

During the transition to post-quantum cryptography, an implementation MAY, by default, encrypt messages to both PQ(/T) and traditional keys to avoid disruption to communications, optionally displaying a warning. As noted in Section 3.1, the confidentiality of a message is not post-quantum secure when using multiple PKESKs unless all of them use PQ(/T) encryption schemes.

8.2. Signing with Traditional and PQ(/T) Keys

The OpenPGP specification [RFC9580] allows signing a message with multiple signatures. This implies the possibility to sign with both a PQ(/T) and a traditional key as described in Section 3.3. Note that signing only with PQ(/T) key material is not backwards compatible.

8.3. Verifying with Traditional and PQ(/T) Keys

When verifying, an implementation MAY be willing to accept signatures both from PQ(/T) keys and from traditional keys. A verifier concerned with a cryptographically relevant quantum computer with knowledge of a peer that has a PQ(/T) signing key MAY prefer instead to ignore all traditional signatures from that peer.

8.4. Generating PQ(/T) Keys

It is RECOMMENDED to generate fresh secrets when generating PQ(/T) keys. Note that reusing key material from existing ECC keys in PQ(/T) keys does not provide backwards compatibility.

9. Security Considerations

9.1. Security Aspects of Composite Signatures

When multiple signatures are applied to a message, the question of the protocol's resistance against signature stripping attacks naturally arises. In a signature stripping attack, an adversary removes one or more of the signatures such that only a subset of the signatures remain in the message at the point when it is verified. This amounts to a downgrade attack that potentially reduces the value of the signature. It should be noted that the composite signature schemes specified in this draft are not subject to a signature stripping vulnerability. This is due to the fact that in any OpenPGP signature, the hashed metadata includes the signature algorithm ID, as specified in Section 5.2.4 of [RFC9580]. As a consequence, a component signature taken out of the context of a specific composite algorithm is not a valid OpenPGP signature for any message.

An attacker cannot generate a fresh valid signature for a message that has already been signed twice with the composite algorithm; being able to do so would violate Strong Unforgeability under Chosen Message Attack (SUF-CMA). Specifically, an attacker might try to construct a new signature by remixing the component parts of two legitimate composite signatures. That is impossible because each v6 signature embeds a random salt at the start of its hashed metadata. The two legitimate signatures use different salts, so their components are not interchangeable and cannot be recombined into a valid signature.

9.1.1. Preventing Signature Cross-Protocol Attacks

Signature cross-protocol attacks exploit the reuse of signatures across different protocols or contexts, allowing attackers to maliciously repurpose valid signatures in unintended ways. ML-DSA [FIPS-204], SLH-DSA [FIPS-205], and EdDSA [RFC8032] support an optional context string parameter `ctx` that can be incorporated into the algorithm's internal message preprocessing step before signing and verification. This context parameter can in principle contribute to the prevention of cross-protocol attacks. Nevertheless, this specification defines all these algorithms to use an empty context string which is in accordance with the previous use of EdDSA in OpenPGP, and maximizes interoperability with cryptographic libraries. In order to reliably prevent cross-protocol attacks, this specification recommends avoiding key-reuse across protocols in Section 8.4.

9.2. Key Combiner

A central security notion of a key combiner is IND-CCA2-security. It is argued in [BCD_24] that the key combiner specified in Section 4.2.1 is IND-CCA2-secure if ML-KEM is IND-CCA2-secure or the Strong Diffie-Hellman problem in a nominal group holds. Note that Curve25519 and Curve448 qualify as such nominal groups [ABH_21].

Note that the inclusion of the ECC public key in the key combiner also accounts for multi-target attacks against X25519 and X448.

9.2.1. Domain Separation and Context Binding

The `domSep` information defined in Section 4.2.1 provides the domain separation for the key combiner construction. This ensures that the input keying material is used to generate a KEK for a specific purpose. Appending the length octet ensures that no collisions can result across different domains, which might be defined in the future. This is because `domSep || len(domSep)` is guaranteed to result in a suffix-free set of octet strings even if further values should be defined for `domSep`. The term "suffix-free" applied to a set of words indicates that no word is the suffix of another. Thus, this property ensures unambiguous parsing of a word from the rear of a string. Unambiguous parseability, in turn, ensures that no collisions can happen on the space of input strings to the key combiner.

The algorithm ID, passed as the algID parameter to multiKeyCombine, binds the derived KEK to the chosen algorithm. The algorithm ID identifies unequivocally the algorithm, the parameters for its instantiation, and the length of all artifacts, including the derived key.

9.3. ML-DSA and SLH-DSA Hedged Variants

This specification makes use of the default "hedged" variants of ML-DSA and SLH-DSA, which mix fresh randomness into the respective signature-generation algorithm's internal hashing step. This has the advantage of an enhanced side-channel resistance of the signature operations according to [FIPS-204] and [FIPS-205].

9.4. Minimum Digest Size for PQ(/T) Signatures

This specification requires that all PQ(/T) signatures defined in this document are made on message digests computed with a hash algorithm with at least 256 bits of digest size. Since all signature algorithms defined in this document require version 6 (or newer) signature packets, which currently include a leading random salt value in the hashed data, the required property is not collision but (2nd) preimage resistance. Therefore, a hash algorithm with a digest size of at least 256 bits is sufficient to match the targeted security levels of all PQ(/T) algorithms defined in this document.

9.5. Symmetric Algorithms for SEIPD Packets

This specification mandates support for AES-256 for two reasons. First, AES-KeyWrap with AES-256 is already part of the composite KEM construction. Second, some of the PQ(/T) algorithms target the security level of AES-256.

For the same reasons, this specification further recommends the use of AES-256 if it is supported by all recipient certificates, regardless of what the implementation would otherwise choose based on the recipients' preferences. This recommendation should be understood as a clear and simple rule for the selection of AES-256 for encryption. Implementations may also make more nuanced decisions.

9.6. Key Generation

When generating keys, this specification requires component keys to be generated independently, and recommends not to reuse existing keys for any of the components. Note that reusing a key across different protocols may lead to signature confusion vulnerabilities, that formally classify as signature forgeries. Generally, reusing a key for different purposes may lead to subtle vulnerabilities.

9.7. Random Number Generation and Seeding

As mandated by Section 13.10 of [RFC9580], all random data must be generated using a cryptographically secure pseudorandom number generator (CSPRNG).

10. Additional Considerations

10.1. Performance Considerations for SLH-DSA

This specification introduces both ML-DSA + EdDSA as well as SLH-DSA as PQ(/T) signature schemes.

Generally, it can be said that ML-DSA + EdDSA provides a performance in terms of execution time requirements that is close to that of traditional ECC signature schemes. Regarding the size of signatures and public keys, though, ML-DSA has far greater requirements than traditional schemes like ECC-based or even RSA signature schemes.

Implementers may want to offer SLH-DSA for applications where the weaker security assumptions of a hash-based signature scheme are required namely only the 2nd preimage resistance of a hash function and thus a potentially higher degree of trust in the long-term security of signatures is achieved. However, SLH-DSA has performance characteristics in terms of execution time of the signature generation as well as space requirements for the signature that are even greater than those of ML-DSA + EdDSA signature schemes.

Pertaining to the execution time, the particularly costly operation in SLH-DSA is the signature generation. Depending on the parameter set, it can range from approximately one hundred to more than two thousand times that of ML-DSA-87. These numbers are based on the performance measurements published in the NIST submissions for SLH-DSA and ML-DSA. In order to achieve fast signature generation times, the algorithm SLH-DSA-SHAKE-128f ("f" standing for "fast") should be chosen. This comes at the expense of a larger signature size. This choice can be relevant in applications where mass signing occurs or a small latency is required.

In order to minimize the space requirements of an SLH-DSA signature, an algorithm ID with the name ending in "s" for "small" should be chosen. This comes at the expense of a longer signature generation time. In particular, SLH-DSA-SHAKE-128s achieves the smallest possible signature size, which is about the double size of an ML-DSA-87 signature. Where a higher security level than 128 bit is needed, SLH-DSA-SHAKE-256s can be used.

Unlike the signature generation time, the signature verification time of SLH-DSA is not that much larger than that of other PQC schemes. Based on the performance measurements published in the NIST submissions for SLH-DSA and ML-DSA, the verification time of SLH-DSA is, for the parameters covered by this specification, larger than that of ML-DSA-87 by a factor ranging from four (for -128s) over nine (for -256s) to twelve (for -128f).

11. IANA Considerations

IANA is requested to add the algorithm IDs defined in Table 9 to the existing registry OpenPGP Public Key Algorithms maintained at [IANA-OPENPGP].

ID	Algorithm	Public Key Format	Secret Key Format	Signature Format	PKESK Format	Reference
TBD(30)	ML-DSA-65+Ed25519	32 octets Ed25519 public key (Table 6), 1952 octets ML-DSA-65 public key (Table 7)	32 octets Ed25519 secret key (Table 6), 32 octets ML-DSA-65 secret key (Table 7)	64 octets Ed25519 signature (Table 6), 3309 octets ML-DSA-65 signature (Table 7)	N/A	Section 5.2 of RFC TBD
TBD(31)	ML-DSA-87+Ed448	57 octets Ed448 public key	57 octets Ed448 secret key	114 octets Ed448 signature (Table	N/A	Section 5.2 of RFC TBD

		(Table 6), 2592 octets ML-DISA-87 public key (Table 7)	(Table 6), 32 octets ML-DISA-87 secret key (Table 7)	6), 4627 octets ML-DISA-87 signature (Table 7)		
TBD(32)	SLH-DISA-SHAKE-128s	32 octets public key (Table 8)	64 octets secret key (Table 8)	7856 octets signature (Table 8)	N/A	Section 6.1 of RFC TBD
TBD(33)	SLH-DISA-SHAKE-128f	32 octets public key (Table 8)	64 octets secret key (Table 8)	17088 octets signature (Table 8)	N/A	Section 6.1 of RFC TBD
TBD(34)	SLH-DISA-SHAKE-256s	64 octets public key (Table 8)	128 octets secret key (Table 8)	29792 octets signature (Table 8)	N/A	Section 6.1 of RFC TBD
TBD(35)	ML-KEM-768+X25519	32 octets X25519 public key (Table 3), 1184 octets ML-KEM-768 public key (Table 4)	32 octets X25519 secret key (Table 3), 64 octets ML-KEM-768 secret key (Table 4)	N/A	32 octets X25519 ciphertext, 1088 octets ML-KEM-768 ciphertext, 1 octet remaining length, [1 octet algorithm ID in case of v3 PKESK,] n octets wrapped	Section 4.2 of RFC TBD

					session key (Section 4.3.1)	
TBD(36)	ML-KEM- 1024+X448	56 octets X448 public key (Table 3), 1568 octets ML-KEM- 1024 secret- public key (Table 4)	56 octets X448 secret key (Table 3), 64 octets ML-KEM- 1024 secret- key (Table 4)	N/A	56 octets X448 ciphertext, 1568 octets ML-KEM-1024 ciphertext, 1 octet remaining length, [1 octet algorithm ID in case of v3 PKESK,] n octets wrapped session key (Section 4.3.1)	Section 4.2 of RFC TBD

Table 9: IANA updates for registry 'OpenPGP Public Key Algorithms'

IANA is asked to add the following note to this registry:

The field specifications enclosed in square brackets for PKESK Format represent fields that may or may not be present, depending on the PKESK version.

12. Changelog

12.1. draft-wussler-openpgp-pqc-01

- * Shifted the algorithm IDs by 4 to align with the crypto-refresh.
- * Renamed v5 packets into v6 to align with the crypto-refresh.
- * Defined IND-CCA2 security for KDF and key combination.
- * Added explicit key generation procedures.
- * Changed the key combination KMAC salt.
- * Mandated Parameter ID check in SPHINCS+ signature verification.

- * Fixed key share size for Kyber-768.

- * Added "Preliminaries" section.

- * Fixed IANA considerations.

12.2. draft-wussler-openpgp-pqc-02

- * Added the ephemeral and public key in the ECC key derivation function.

- * Removed public key hash from key combiner.

- * Allowed v3 PKESKs and v4 keys with PQ algorithms, limiting them to AES symmetric ciphers. for encryption with SEIPDv1, in line with the crypto-refresh.

12.3. draft-wussler-openpgp-pqc-03

- * Replaced round 3 submission with NIST PQC Draft Standards FIPS 203, 204, 205.

- * Added consideration about security level for hashes.

12.4. draft-wussler-openpgp-pqc-04

- * Added Johannes Roth as author

12.5. draft-ietf-openpgp-pqc-00

- * Renamed draft

12.6. draft-ietf-openpgp-pqc-01

- * Mandated AES-256 as mandatory to implement.

- * Added AES-256 / AES-128 with OCB implicitly to v1/v2 SEIPD preferences of "PQ(/T) certificates".

- * Added a recommendation to use AES-256 when possible.

- * Swapped the optional v3 PKESK algorithm identifier with length octet in order to align with X25519 and X448.

- * Fixed ML-DSA secret key size.

- * Added test vectors.

- * Correction and completion of IANA instructions.

12.7. draft-ietf-openpgp-pqc-02

- * Removed git rebase artifact.

12.8. draft-ietf-openpgp-pqc-03

- * Updated SLH-DSA by removing parametrization and restricting to three SLH-DSA-SHAKE algorithm code points.
- * Removed NIST and Brainpool curve hybrids, dropped ECDSA from the current specification.
- * Updated KDF as proposed at IETF 119.
- * Removed whitespaces from composite algorithm names.
- * Explicitly disallowed SED (Packet Type ID 9) and weak hashes when using PQ algorithms.

12.9. draft-ietf-openpgp-pqc-04

- * Fixed ML-DSA signature size.
- * Fixed parameters order in PKESK description.
- * Fixed missing inputs into KEM combination description.
- * Improved parallel encryption guidance.
- * Improved SED deprecation description.
- * Added ML-DSA test vectors.

12.10. draft-ietf-openpgp-pqc-05

- * Reworked KEM combiner for the purpose of NIST-compliance.
- * Mandated v6 keys for ML-KEM + ECDH algorithms.
- * Defined secret key seed format for ML-KEM and ML-DSA.
- * Added key generation security considerations.
- * Replaced initial public drafts with FIPS 203, 204, 205.

12.11. draft-ietf-openpgp-pqc-06

- * Fixed and improved test vectors.

12.12. draft-ietf-openpgp-pqc-07

- * Assigned code points 30 - 34 for ML-DSA + EdDSA and SLH-DSA algorithms.
- * Aligned KEM combiner with LAMPS.
- * Dropped CCA-conversion of X25519/X448 and adjusted security considerations.
- * Switched to hedged variant also for SLH-DSA.

12.13. draft-ietf-openpgp-pqc-08

- * Assigned code points 35 and 36 for ML-KEM + ECDH algorithms.
- * Removed hash binding for ML-DSA + EdDSA and SLH-DSA algorithms.
- * Allowed usage of ML-KEM-768 + X25519 with v4 keys.
- * Aligned KEM combiner to X-Wing and switched to suffix-free encoding of the domain separator.

12.14. draft-ietf-openpgp-pqc-09

- * Removed subkey semantics related guidance.
- * Updated test vectors.
- * Added non-normative algorithm explanation.

12.15. draft-ietf-openpgp-pqc-10

- * Specified minimum requirements for signature message digest sizes.
- * Added security considerations for signature message digest sizes.

12.16. draft-ietf-openpgp-pqc-11

- * Editorial changes and fixes of inconsistencies.

12.17. draft-ietf-openpgp-pqc-12

- * Moved from informational to standards-track.

12.18. draft-ietf-openpgp-pqc-13

- * Addressed various editorial comments from AD review.
- * Added text about signature verification to the migration considerations section.
- * Added text about preventing signature cross-protocol attacks to the security considerations section.

12.19. draft-ietf-openpgp-pqc-14

- * Fixed a broken reference.
- * Updated KEM combiner references.

12.20. draft-ietf-openpgp-pqc-15

- * Addressed various editorial comments from IESG reviews.

12.21. draft-ietf-openpgp-pqc-16

- * Addressed more editorial comments from IESG reviews.

13. Contributors

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Appendix A. Test Vectors

To help with implementing this specification a set of non-normative examples follow here.

A.1. Sample v6 Ed25519 with ML-KEM-768+X25519 Data

A.1.1. Transferable Secret Key

Here is a Transferable Secret Key consisting of:

- * A v6 Ed25519 Private Key packet
- * A v6 direct key self-signature
- * A User ID packet
- * A v6 positive certification self-signature

- * A v6 ML-KEM-768+X25519 Private Subkey packet

- * A v6 subkey binding signature

The primary key has the fingerprint
c789e17d9dbdca7b3c833a3c063feb0353f80ad911fe27868fb0645df803e947.

The subkey has the fingerprint
dafe0eebb2675ecfcdc20a23fe89ca5d12e83f527dfa354b6dcf662131a48b9d.

-----BEGIN PGP PRIVATE KEY BLOCK-----

xUsGZ3SFgBsAAAAg3LSTXMTIYPje/3KOQ480cxsp1t0/1w2687B8uqUTCvwArfra
hBTuKi jHaDe4/1ZcaYn7Z67De15iWPC/vGa3J4DCngYfGwgAAAA/BYJndIWAAsJ
BwIVCAIWAABAwIeCSKhBseJ4X2dvcp7PIM6PAY/6wNT+ArZef4nho+wZF34A+lH
BScJAgcCAAAAADQ7EIBsYsSttPe/Uf3gEmjU8NG0Ej59FY8N8de0aowAompVXg4Q
T9j1IsjmU28Ex/k1PTewAx5OoeQpQbJ4jjH+R/OZ730kkv+c+1mea5dpJdINzS5Q
UUMgdXNlciAoVGVzdCBLZXkPIDxwcWMTdGVzdC1rZXlAZXhhbXBsZS5jb20+wosG
ExsIAAAALAWCZ3SFgAIZASKhBseJ4X2dvcp7PIM6PAY/6wNT+ArZef4nho+wZF34
A+lHAAAAAD4xEPlvPFA18bTluf3pkoZII9dcKltRjMIkbZqDg5el9xpB50br+7lg
CeQ4FOlsdrb9u7+twdm46fd6pR74naBnq6puYgsQnlLpTfnWqX6BB7sHx8RrBmd0
hYAJAAAEwCIVC0MM9yTsGbi+Vd+byq3jJwhXETaUBKVlyAI0Q7BfXkJC3YN0sGUL
B1LlIvZBSlFEx/9op4ncn+0J9IKekZuu449mu2UdNA/XK+5wl+sGGdTVNrJq3s7R/
BktVNWBMG0t+eYBtItQaxwYucsOntcO344uH1BA+ZHIALxsHN6KrZPCeqfF9ppTB
8UALvVR0JATptyyuxFw6MUex06GlyzirMXafH8jK5KqZJbjBKWwPo7bIsBBbLpqq
9yQxb7YYJ6VQMGkitrRwWNwQxTGDTEE8/FyUMIYklGMewmG65RkKrbMKICsBX7lD
lcQ7fisEp7Y+WoOVqass6FuOWKJLIhyrg+A93oUsNBhGz/iEgJehP2g8AQPNMnO+
IicgIwQdV+YJRreWKvQosYMHxtopQRWKRXmmrGKPFYeoZvo06qR+JImvIDgy0gV/
eEun8iVoQbxuBXPIQXJOicOFPIWjXisG/0G3rOyRE9o0ivlxZPKu2qKayfFtMwxb
NWg54ieV/urfrjRRHOnL0SaxigY8N0FIwaTB4uMeyqphG+Ri7nSgnLVxaeS9/tzN
iKlgsuAuC5k7E+XPAonGy9Ik+mOHJ9hg0XKNzvyNR/uwWhB2WFmFDRB3ldVE3/wh
LLe7yPmptIFWZ3J2LaaFqTyUhoNW6spRkUWenMgo3MxRS3QgmBGXqou6/7RT2tdV
rWIY8WJO5SmMnZcrJ6oX3qKYgfiJjGCTuUegr/cNNJNLE/shyedkdxfg6jaQSzrL
xOWg0fBHtrdlsnWWryCofwi7ray3HjNnKjNddfichjWkLpu5H2dYM/CzdnmmOlK9
71vJgeZ6SrivUlWLTHDIkVqVr5F+iPXHU+Wd6hcUxrIH4eUXTJFIUYiamSqb35cg
AAzOBBS/DKwD46pOURchWRNRUBu47qiJE4AT6Ia0dTFkCSRezaJXBNe9+oisPDct
QTx/VZaktkvK4hc+DLwuMiQuQMoEv0CgzLlr7XpxvCaEGYOiFTJydFtlhepmheZ3
k0puE51Y8A0JBEDlPKPEDzwqD0wOBxamTEQGIPqH39ENs4q08BcOXjANqwtjxVot
JIurlBcxgsZ16RZOyiaRcCs358AMrExMScNfU+HBIONqXRkzCPOqn3sCMzQ0+dwJ
uxNUoEYDcUatYos8+lBdaHvGaenMY3EuxQWeAJQEN4dpYfe29qlcYOWcHRTYosmL
c7OaHMq7wnCzdJeyiHobAIGVZGZvAyW6w9cTlQd2pTdsDgSm08or69gYPKxsmLei
b3JoytejtBhnaexyfeCFhksHzJlu48l65fDFE3h5Pmqj8vRGfFik2qbIzrU1lala
/IiJD7RnwTQCyuO++yKba7rClqXCXBFZixBwwTavHeEAPNnMmWxDfna2frNnFKRo
dDaTM7o76Gs7rgTIElAzQfZihlyAJpSwjEcVDZdIRaRTrkK/4PJzVHGb4wwkOwfl
oPEBCmuAYTxfqJVEgdBi6pUsPaEQzkUeIeOVgoFnMhP3+N22fMWkCBc/LY0ThtP
XFwThkq5jmmj+aiuyGOaadccBKWTvxloBly25QADfbYI2oImtVulJDjFCf6PQ74U
WSEf9EvmTgsMQq/TPICLDUyoTkteLTQAWE2+uDYPxbo85xlZ2/yGneciXS8MvfqB
z8ZOI/y0C3xRsn7ZFZ2nEAAP9RUboQSSkc/gerixe47HC7X+MP6h7UAY49+ndvRO
6AHx2zZzPiDlZ0NgX3p6Aem45zjfMT7+wosGGBsIAAAALAWCZ3SFgAKbDCKhBseJ
4X2dvcp7PIM6PAY/6wNT+ArZef4nho+wZF34A+lHAAAAAMitELFBvWMJM18SWIqP
kabwnOQber9GdZt2dJZF0Y08qGRmLO+T7GIAyJ9TlZHonA3y01AALYdfvolBM2gL
pujFf59V4t3iZxgQfgvs0+vrcSse

-----END PGP PRIVATE KEY BLOCK-----

A.1.2. Transferable Public Key

Here is the corresponding Transferable Public Key for Appendix A.1.1
consisting of:

- * A v6 Ed25519 Public Key packet
- * A v6 direct key self-signature
- * A User ID packet
- * A v6 positive certification self-signature
- * A v6 ML-KEM-768+X25519 Public Subkey packet
- * A v6 subkey binding signature

-----BEGIN PGP PUBLIC KEY BLOCK-----

```
xioGZ3SFgBsAAAAg3LSTXMTIYPje/3KOQ480cxsp1t0/1w2687B8uqUTCvzCngYf
GwgAAAA/BYJndIWAawsJBwIVCAIWAakbAwIeCSKhBseJ4X2dvcp7PIM6PAY/6wNT
+ArZef4nho+wZF34A+lHBScJAgcCAAAAADQ7EIBsYsSttPe/Uf3gEmjU8NG0Ej59
FY8N8de0aowAompVXg4QT9j1IsjmU28Ex/k1PTewAx5OoeQpQbJ4jjH+R/OZ730k
kv+c+1mea5dpJdINzS5QUUMgdXNlciAoVGvzdCBLZXkpIDxwcWMtdGVzdC1rZXlA
ZXhhbXBsZS5jb20+wosGExsIAAAALAWCZ3SFgAIZASKhBseJ4X2dvcp7PIM6PAY/
6wNT+ArZef4nho+wZF34A+lHAAAAAD4xEPlvPFA18bTluf3pkoZII9dcKltRjMik
bZqDg5el9xpB50br+7lgCeQ4F0lsdrb9u7+twdm46fd6pR74naBnq6puYgsQnlLp
TfnWqX6BB7sHzsQKBmd0hYAJAAEWCIVC0MM9yTsGbi+Vd+byq3jJwhXETaUBKV1
yAI0Q7BfXkJC3YN0sGULB1LIvZBSlFEx/9op4ncn+0J9IKeKzUU449mu2UDNA/XK
+5wl+sGGdTVNrJq3s7R/BktVNWMG0t+eYBtItQaxwYucsOntcO344uH1BA+ZHIA
LxshN6KrZPCeqfF9ppTB8UAlvVR0JATPTyyuxFw6MUex06GlyzirMXafH8jK5KqZ
JbjBKWwPo7bIsBBbLpQk9yQxb7YYJ6VQMGkitrRwWNwQxTGDTEE8/FyUMIYklGMe
wmG65RkKrBMKICsBX7lDlcQ7fisEp7Y+WoOVqass6FuOWKJLIhyrg+A93oUsNBhG
z/iEgJehP2g8AQPNNmO+IicgIwQdV+YJRreWkvQosYMHxtopQRWKRXmmrGKPFYeo
zvoo6qR+JImvIDgy0gV/eEun8iVoQbxuBXPIQXJOicOFPiWjXisG/0G3rOyRE9o0
ivlxZPKu2qKayfFtMwxbNWg54ieV/uRfrjRRHOnL0SaxigY8N0FIwaTB4uMeyqph
G+Ri7nSgnLVxaeS9/tzNiKlgsuAuC5k7E+XPAonGy9Ikm+oHJ9hg0XKNzvyNR/uw
WhB2WFmFDRB3ldVE3/whLLe7yPmptIFWZ3J2LaaFqTyUhoNW6spRkUWenMgo3MxR
S3QgmBGXqou6/7RT2tdVrWIY8WJO5SmMnZcrJ6oX3qKYgFiJjgCTuUegr/cNNJNL
E/shyedkdxfg6jaQSzrLxOWg0fBHtrdlsnWWryCofwi7ray3HjNnKjNddfiChjWk
Lpu5H2dYM/CzdnmmOlK971vJgez6SrivUlWLTHDikVqVr5F+iPXHU+Wd6hcUxrIH
4eUXTJFIUYiamSqB35cgAAZOBBS/DKwD46pOURchWRNRUbu47qiJE4AT6Ia0dTFk
CSRezaJXBNe9+oisPDctQTx/VZaktkvK4hc+DLwuMiQuQMoev0CgzLlr7XpxvCaE
GYOiFTJydfTlhepmheZ3k0puE51Y8A0JBEDlPKPEDzwqD0wOBxAMTEQGIPqH39EN
s4q08BCOXjANqwtjxVotJIurlBcxgsZ16RZOyiaRcCs358AMrExMScNfU+HBIONq
xRkzCPOqn3sCMzQ0+dwJuxNUoEYDcUAtYos8+1BdaHvGaeNMY3EuxQWeAJQEN4dp
Yfe29qlcYowCHRtYosmLc7OaHMq7wnCzdJeyiHobAIGVZGZvAyW6w9cTlQd2pTds
DgSmO8or69gYPKxsmLeib3JoytejtBhnaexyfeCFhksHzJlu48165fDFE3h5Pmqj
8vRGffik2qbIzrU1lala/IiJD7RnwTQCYuO++yKba7rClqXCXBFZixBwwTavHeEA
PNnMmWxDfna2frNnFKRodDaTM7o76Gs7rgTIELaZQfZihlyAJpSwjEcVDZdIRaRT
rkK/4PJzVHGb4wwkOwflOPEBCMuAYTxfqJVEgdBi6pUsPaEQzkUeIeOVgoFnmhP
3+N22fMWkCBc/LYOThtPXFwHkq5jmmj+aiuyGOaadccBKWTVxloBly25QADfbYI
2oImtVu1JDjFCf6PQ74UWSEf9EvmTgsMQq/TPICLDUyoTkteLTTCiwYYGwgAAAAAs
BYJndIWAapsMIqEGx4nhfZ29yns8gzo8Bj/rAlP4CtkR/ieGj7BkXfgD6UcAAAAA
yK0QsUG9YwkzXxJYio+RpvCc5Bt5H0Z1m3Z0lkXRg7yoZGYs75PsYhpiPlOXMeic
DfLTUACVhl++iUEzaAum6MV/nlXi3eJnGBB+C+zT6+txKwQ=
```

-----END PGP PUBLIC KEY BLOCK-----

A.1.3. Encrypted and Signed Message

Here is a signed message "Testing\n" encrypted to the certificate
Appendix A.1.2 and signed by the secret key Appendix A.1.1:

* A v6 PKESK

* A v2 SEIPD

The hex-encoded mlkemKeyShare input to multiKeyCombine is
b0e45408d8c713f3941cd27276f879e557df013e05bcf43e37d4c60266a4b797.

The hex-encoded ecdhKeyShare input to multiKeyCombine is
9d994741e0db5eacee44cb028c2ec48b1346feae2576aaac383bbcd64138c932.

The hex-encoded output of multiKeyCombine is
5bf078bf7977109db6dead92d3578b62d0ab0487ef84e8e0af08f4b4b229e590.

The hex-encoded session key is
94a3b8c9784463bb96b682cddf549adb23579b75bcb646f989d7cfe3e6e14435.

-----BEGIN PGP MESSAGE-----

wcPtBiEG2v4O67JnXs/Nwgoj/onKXRLoPlJ9+jVLbc9mITGki50jheL+TOBHsjFH
wVgycjiaAbS8K5lgfQw4rBjSqxl6Smu90uphsP45SHdcYxgCXThuQ7TN+iSi+eCg
6NwID4cGRb4jVXdg0S9ur3ehWmC142K5BukkbWWBQDJM0hQa9DW+Lz+5PAb6JOfF
OGfbXzRTmuNBM8nePrigxOrtDe00K6qZlDvBjXOx5mvuCe j/33WnfJFYPhxpZfv0
+605dm/Sy+I0QUpaKrViXZoR4Z01gm35NKgYCUmYPV9MspsF8ayZliOWkTnLbauU
WuDCTl8KNbMQ4WP5QOaxs65CV82AYMkprBoCmsgjffBy8fxSeqIKhlqghV3s+7xD
cpSxUc+220//NMNTq6nwDeMwjQ8kO15EHFWD0WT2QNXBPMTXrQV0jox5viI+ogom
O+SKE3I66B77OKtOwNP4CQ8dFD2hJpk/G1+ymGNyhMqYCN4hTa4aI17LABlKpvjc
lZSK4xiJo2m4ua89V9eidgKio8RrikzEe6kwOyda21lnyHjCDPfZ3CYtDp0BYXgB
rl0MnZWCGMj/tMU4Pa6qvK7/m0szCpEYOy+nYEnfgiohsuf4lU2GeybUrFYOV51W
EF4X6nRatKz/Bz25TzrlXYgYPbMyOm3gUPR0TH311Nur3EoQLq4n4br9ejUX/VfK
ZPEkWkug/Im8pnz82lv0aqJVqnyEeDY0ViIDbCnjVHhI9CVck8rstECjLcJSK9Tz
qS+8Tpi07ie6F91XARiaBwd8HopF4R1LmnKcEhEF7/7cJVKTaa0mZR5FRzIGnloK
e0ANAN0LFP5w2HZqXbpmuRwKrpYfkIShyJFRGO9xDMf7uPIqPzElqL2yVIfpeDGP
rHvJbGzcTJ86r5qHA//257mArffHD24QWytBivPkFDJRWI IQh3Nu3tNwWif5kTar
Tgr66CPfwBa/hLeQWPGCFq0ylh3rhG8CYvxy5cyj4OSCP3Q7M3dxodS2XsWICKoU
GDo0E9uieJc7f80397DGp4E3BgP7s/Xk2ncWT7NlrpctYgFiMKCjEdSWbO08C8RG
8OYgBnMcY3p5xqk2u62lJcCeus3uf3Kg6wUBPokja5XdllbVQId+80MzEDyjhv3x
6c/F0az/Lrzq3/2dnp3vy0rU9WZ593WRnVZ70pcIWQqaJYCioyZ7mkTkqyhg8P38
YUZuFtSGGk69n7QD3bdZBjbzMRnvevQuxXe6+WeXaT9uvEY/GKLEstgpoIlaDS97
OfmxdOJafVJNjDzl2DJyKEpCdqCOsTabVfLaGu6C3NQTNjCHJNXJhTF8Bt9c6dlW
ISDESfmHtDnztMW+Y/y+juU/hFwK9w13dolhOHQvqdUrskh+a7rZv4nUt9Badle6
oZtSzXmDM+5PVqU2LQ6RIrOeZ2SoIMBv4PnsykerAoUwRUH4z4gkQi0rU3r4wVta
6kDfo9HltNd5sl6Afy4SYE06+VsJ9fprlQ4jKEHbNhankPgpvs0CQUMyUla8HBn0
5eqmkIRGAihzdKJzUktiPgYAtg5sC+TlowxmLuzirbEzFQlUcgRLDzNGlUFeizdy
0sB5AgkCDEZm5g/ljKo0pPuGEZHCwXXAJTc4NlctGZVms9el2uztFUGs2t+4e42t
811CsmDm2+2Dgs6TPzGkv4/9yNSKtoZWFE70fotPsAtz0Lh4e3sDOAky3ZssjCHL
LdiKUVpTFG07x+hQqewYMXLNushBVDHdxSYy1SYCRRh+K/yzgIkjZv+rtAIfL8tp
ZA4yVEMYXpsBNj4477QzhxlZrBhC3DQrjuqOGqKmewd5fsF87efpXwabHgdOwE0J
vqDodfstqnuEDGPPmGK8HsrEGBC/B4n5+VhHD7Ew5l000Js3xcux8DVjtNF8evet
AalNDVNZCxs+gntG0LZZ7dBYw20TDQ61cWVIKek9UHZFDeG50zdfFfCsm2kURDhv
ngqFrEkdOzaOHlIZarV74y3G3wZyzXobjp+dpA==

-----END PGP MESSAGE-----

A.2. Sample v4 Ed25519 with ML-KEM-768+X25519 Data

A.2.1. Transferable Secret Key

Here is a Transferable Secret Key consisting of:

- * A v4 Ed25519 Private Key packet
- * A User ID packet
- * A v4 positive certification self-signature

- * A v4 ML-KEM-768+X25519 Private Subkey packet

- * A v4 subkey binding signature

The primary key has the fingerprint
342e5db2de345215cb2c944f7102ffed3b9cf12d.

The subkey has the fingerprint
e51dbfea51936988b5428fffa4f95f985ed61a51.

-----BEGIN PGP PRIVATE KEY BLOCK-----

```
xUkEZ3SFgBuhDibMGc69QTyzKYr3R7MMAQOZuU0Bwg82JVcL+NGHswA4zWTCi+mw
P/WoL5x2SDW3bNe2kpcypEWdTapexJdgWxDLzS5QUUMgdXNlciAoVGvzdCBLZXkp
IDxwcWMtdGVzdC1rZXlAZXhhbXBsZS5jb20+wsAABBMbCAB2BYJndIWAAsJBwmQ
cQL/7Tuc8S01FAAAAAAAHAAQc2FsdEBub3RhdGlvbnMub3BlbnBncGpzLm9yZ+U1
WyqYGQo/YJguDbFrolcCFQgCFgACGQECmwMCHgkWIQQ0Ll2y3jRSFcsslE9xAv/t
O5zxLQUnCQIHAgAAiv81HEErhisNla+h8zV+vQ9HbCb5/ukgpBG527xzg2ULCaTJ
s/DvNGL/cC+EHwQ8Bkl+dKSr9fwFBmxb3fkxTEYEx8RpBGd0hYAJsfqoDhr3VUD
76sj9JP+04jzHeAhTXnoPF3N7Cs281UB+Awo6DCHkI8GuMzoPE4B0suYulRyWZL7
xZTGtTqua8iSHLRoqLppdL7u0M5IUafYaacURmnGARVgK6FvljpmVX33rAn3yzAV
2STmln8wxhRJ2Qol0Ss+m4L2hyt74h0a05D9M8Iyl2J+w8G54jmcaRxmNoBlOnes
M052o7TlwcZjwKJ2polUw8SNqoqAKUBnu5wA87MfJ699igCog2mT8De1W7VA5V4m
hWkk3IaGUG+Yahrox3Kx1Vgeeg3d9grjNZAHCMJEt8wFKmH+Ca8GNljDAEOGQrDs
FzzZ0Lg7Gx/96Wuv2gNktLCgPHS+ZHn3J6pXe5klpWA8oFi9uLkj2JHyeqG7x1Kv
K3MQfb4RjJbBIE5GKkdQ0xLA+I6vwr5wBm4li27Xps81NwvwSmHlU0bvOC14Bwdc
p7gqQ0t6JX0qs18jW8Du5l08FgTYBT3qHEWj9BezKqVCUqfXG7bR+DoN+CR4kxZx
Wa/EhXmvghxJGllP2G+QQFSS2Zn6SFxf58OaMswI1jEPu4RjBEK698d8JiFuKXUA
sHlMfGdF5aXw5rUF4wYIBA9yUjsukD5dhGdPRxeD4hdCSizjKTEFdDnSZwMTiSx8
AFE04w2jr8OKCiN+g8TtBzYq10TAARS29D0thFAuMr9dkYFbFAXdIFgCYl9w1Rpw
g6QwpWJl+lUTc6+QiXTq+qrjQq4zIHv3KBf3y8PM9VsWhISCqrbrtRXlqQyLRAREx
Sg0eqA8pImln0WdpWpRDNMNERsRDy8ksBpjEskLuOn2/syUrGz8IKipIgWx/KURS
UQD0dkWoa2gboXlf7CsD+oVemcK3YWPoa0G2WVHlLCDrNr/Yl86e120PeDDmbKKb
xY9xSwF/sZu5K3/mGYBwUmZdfGtylnOexsr0agYZSkejBkRCWYJYqi+BswClWxr6
1kpYxL6aK5HyCMvoGAa8BbIyp4ZXKXFn61KoW8UtUzUcVcZ7cnD6KwQDCgvt8zkl
mbraF6fCZx18gSgKJ6EqDBC8xm91jItq5rAonI6OyZlpAGHNp0ucMwD2h5INVcpG
5Svbcbgp8g4NhB2YC6SbGsrMYg7r56vq4V+PAWToljJbRZZYg86SDMnN2B7vtGIZ
7EzerETOqs5FIXyENGku5MB/dswa+0qDZZJd4SvIAx4QZBMD0btXIFYOVZVGSKdf
l2aqQrz9dFzWGBWdukVEK1fupVeqNLSRGruneUtum0+duXgr+R9opk96lAIdyiar
BgglnwoE98KrWbg3VQoxpkWisioEQZlnx6h84WUzoCDmtiNOSwGyOR0BekNxAy3
aA3bgX1hUBk4pHl0LEK7M2w9EiVXu23Ka0dBrGJPoIgcBcbAQyC34CeptLxHfLJK
1jYkt8JlEM29EUptHhK5mm4ACbMi6hSaKY2zhDp2NGAXBGTW8DZDdHhWIZtfdgjc
9cExwJ1Y+Q5jOkhSAodehgXFEmkJJ8diLIer8R7aoE/BRIGgsl/P9TOoSziAukuR
022b9VpaxFmAw5VKwRlp+LGS05NNk8pHNDH08Z1vq2ucB6XUJZP4+KPae2VsP3sz
XOt9s+Q8MgD8dFKGx/K6MnUo8d4SiSN6xwZrRTOI8isx7mKUottWlFnIp6AbcIcW
v2muZAinRVJ+QOF+0tPZ+U1FXff0TOQboC0lStCNTWQH9VssBXnVyzpmkelDStd3
cXl7xiULVi0u5cKqBBgbCABgBYJndIWACZBxAv/tO5zxLTUUAaaaaaaAcABBzYwX0
QG5vdGF0aW9ucy5vcGVucGdwanMub3JngVWn5tMqxzNf8aApl434UAKbDBYhBDQu
XbLeNFIVyyyUT3EC/+07nPEtAADn/QwnUsJ2e8wOM1CRL7UfYfta21hApsSrb/KP
afZa4v1Zz2bq/w+2YWC5UFY9hPTVriMS9ve0oUncLSotJfMCMwk=
```

-----END PGP PRIVATE KEY BLOCK-----

A.2.2. Transferable Public Key

Here is the corresponding Transferable Public Key for Appendix A.2.1 consisting of:

* A v4 Ed25519 Public Key packet

- * A User ID packet
- * A v4 positive certification self-signature
- * A v4 ML-KEM-768+X25519 Public Subkey packet
- * A v4 subkey binding signature

-----BEGIN PGP PUBLIC KEY BLOCK-----

```

xiYEZ3SFgBuhDibMGc69QTyZKYr3R7MMAQOZuU0Bwg82JVC+NGHs80uUFFDIHVz
ZXIgfKFRlc3QgS2V5KSA8cHFjLXRlc3Qta2V5QGV4YWlwbGUuY29tPsLAAQGTGwgA
dgWCZ3SFgAMLCQcJkHEC/+07nPEtNRQAAAAAABwAEHNhBHRABm90YXRpb25zLm9w
ZW5wZ3Bqcy5vcmlJbVsqmBkKP2CYLg2xa6JXAhUIAhYAAhkBApsDAh4JFieENC5d
st40UhXLLJRPCQL/7Tuc8S0FJwkCBwIAAIR/NRxBkYYrDZWvofM1fr0PR2wm+f7p
IKQRudu8c4NlCwmkybPw7zRpf3AvhIVkPAZNfnSkq/X8BQZsW935MUxGBM7EBgRn
dIWAI7CH6qAx691VA++rI/ST/tOI8x3giU156DxdzewrNvNVAfgMKOgwh5CPBrjM
6DxOATrLmLtUclmS+8WUxrU6rmvIkhy0aKi6aXS+7tDOSFGn2GmnFEZpxgEVYCUh
b5Y6TFV996wJ98swFdkkzJZ/MMYUSdkKJdErPpuC9ocre+IdGtOQ/TPCmpdifsPB
ueI5nGkcZjaAZTp3rDNodq005cHGY8CidqanVMPEjaqKgClAZ7ucAPozHyevfYoA
qINpk/A3tVulQOVeJoVpJNYghlBvmGoa6MdysdVYHnoN3fYK4zWQBwjCRLfMBSph
/gmvBjZYwwBDhkKw7Bc2c9C4OxsF/elrr9oDZLSwoDx0vmR59yeqV3uZJaVgPKBY
vbi5I9iR8nqhu8dSrytzEBW+EYyWwSBORipHUNMSwPiOr8K+cAZuJYtul6bPNTcL
8Eph5VNG7zgpeAchXKe4KkNLeiV9KrNfIlva7uZdPBYE2AU96hxMI/QXsyqlQlKn
1xu20fg6DfgkeJMWcVmvxIV5r6ocSRpZT9hvkEBUktmZ+khV3+fDmjLMCNyxD7uE
Y2xCuvfhfCYhbi11ALB9THxnReWl8OalBeMGCAQPclI7LpA+XYRnT0cXg+IXQkom
YykbXQ50mcDE4ksfABRNOMNO0fDigojfoPE7Qc2KtdEwAEbNvQ9LYRQLjK/XZGB
WxQF3SBYAmJfcNUacIOkMKViZfpVE3OvkI106vqkY0KuMyB79ygX98vDzPVbFoSE
gqQ27UV5akMpUQUERMuONhqqPKSJtZ9FnaVqUQzZjREbEQ8vJLAaYxLJC7jp9v7Ml
Kxs/CCoqSIFsfylebFEaznZFqGtoG6F5X+wrA/qFXpnCt2Fj6GtBtllR5Swg6za/
2JfOntdtD3gw5myigcWPcUsBf7GbuSt/5hmAcFJmXXxrctZznsbK9GoGGUpBIwZE
QlmCWKovgbMAPVsa+tZKwMS+miur8gjl6BgGvAWyMqEGVylxZ+tSqFvFLVM1HFXG
e3Jw+iseAWoL7fM5JZm62henwmcdfIEoCiehKgwXPMPdYyLauawKJyOjsmdaQBh
zadLnDMA9oeSDVXKRuUr23G4KfIODYW9mAukmxrKzGIO6+er6uFfjwFk6JYyW0WW
WIPOkgzJzdge77RiGexM3qxExqrORSF8hDRpLuTaf3bMGvtKg2WSXeEryAMeEGQT
A9G7VyBWDlWVRrCg35dmqkK8/XRclhgVnbpFRCTx7qVXqjs0kRq7pxFLbjNPnbl4
K/kfaKZPepQCHcomqwyIJCJ6BPfCq1m4N1UKMaZForIjheGZZ8eofOflM6Ag5rYj
TksBsJkdAXpDccAMt2gN24F9YVAZOKR9TPRCuzNsPRilV7ttymtHQaxiT6CIHAXG
wEMgt+AnqbS8R3yyStY2JLfCZRDNVrFKbYRyuZpuAAmzIuoUmimNs4Q6djRgFwRk
1vA2Q3R4ViGbX3YIwvXBMcCdWPkOYzpIUgKHxOYFxrJpCSfHYiyBK/Ee2qBPwUSB
oLJfz/UzqEs4gLPkLdNtm/VaWsRZgMOVSSedafixkjuTTZPKRzQxzvGdb6trnAel
lCWT+PiJ2ntlbD97M1zrfbPkPDLcGgQYGwgAYAWCZ3SFgAmQcQL/7Tuc8S01FAAA
AAAAHAAQc2FsdEBub3RhdGlvbnMub3BlbnBncGpzLm9yZ4FVp+bTKsczX/GgKZeN
+FACmwwWlQQ0Ll2y3jRSFcslE9xAv/tO5zxLQAA5/0MJ1LCdnvMDjNqKS+1H2H7
WttYQKbEq2/yj2hWwUL9Wc9m6v8PtmFguVBWPYT01a4jEVB3tKFJ3C0qEyXzApsJ
-----END PGP PUBLIC KEY BLOCK-----

```

A.2.3. Encrypted and Signed SEIPD v1 Message

Here is a signed message "Testing\n" encrypted to the certificate Appendix A.2.2 and signed by the secret key Appendix A.2.1:

* A v3 PKESK

* A v1 SEIPD

The hex-encoded mlkemKeyShare input to multiKeyCombine is
16f2aea8ec1ca277c04cc7b87681d7d38511a38f554775a8fc4de41aa76eb586.

The hex-encoded ecdhKeyShare input to multiKeyCombine is
2fc0c8fcace9636c86d1ee1715a302819ad48c549579a462a33eed36627c532e.

The hex-encoded output of multiKeyCombine is
c1591d7511f9f0213bfd57cf316e5ec0d40c4ea826fa989ab606aa3b8a1a2c1f.

The hex-encoded session key is
b4dc7197e1519822ca689da484643edf272934d98ae1974b5d88317a7a6a3c4f.

-----BEGIN PGP MESSAGE-----

```
wcPUA6T5X5helhpRI8oKxrVQiCkB27ePKVHeA4pTYMKZA6u1l8syrP2+sEULDgVb
GmH6+0mTw07VEh6Jlil+3ymnnTqLhkv3YqdBtiC81+PL05YPCymPZaWf0ajq+4sM
dnBfLJ3BPrsJw03sVHIBh+L3qolG0CliIzGKxIPz9F5RBSvDdSIwCNg9hnfZjpmu
kcmceYISpWjJR+LeAieyYOTZ+Qhx71jYQ2svfpwW+XAw03uMpZkvqkOJmYr8uUca
i8x2j4G6EUXuu9NswSPPIrCqU6OZVdpoHUZusFyRZz89V10fQr9hrnJOGw0VtPGz
SMEulSosvnnvK2BQ2ccJVnn0s/mk+fttQLpBBsKCH0UK8norIXt5ahxdj9sSwBTf
q6cPlHzlo9OnFSuewFkapA4PuLxhf4YY8ZTsC9LUZLiMf8MrMza7gbtnEbBzW3bx
y6QD6I+PneJl/8M5a7ECrlFuR2p3Kyt6MTiY+6sxxJlGOVhpNS24iO/LRxAUe8DRi
tFC46oEQFByp98SIwt3JoJKHcjQzLKTjRWfYhZDiUnBkoM6nYaAZdItcFsBDG3IV
1UstcmfcCugJyWi8V8XHVkdHWe3bWclWrhieDCVpfSBD2NnRMGG+g90WtHcwhntf
n/mwyR/GLG+gRc16I5hPm84lS34+/txx745yDXdTz/szZAqQw0VW47CwF17A3wdw
cX1UDnUnf7/llFKgg8Zn/GXGIEreo5q/83Ib7dehm50APhtaKnQzoPbPPu21lw+8
/3gisYxQbmrphEpU2KWWWrG5g8P3JG/D9wlHwDhhXPCdNFB7wthQbaDQlWnN3WlV
BEtWMOqLTiOvjrxHbn5judqLYQqGZPbMguzj5JXrQM7wVu4o0edv967oI6ZRBg4y
BtwlXWF3cgMvvAffH8fXGXAtJw5Gz4/gxzanlqlJcOm6Akgp55J37LlPeXIKHiyX
W/J8qEbk0XgSSa5VduPfnP7AzrLWtyT5B9lqPszmR7euLXvb+tCuNa/G/ldceJO8
6MKJVXYuYnk2qpuNWV1NPlCUH583LH2xgJ1YNk6U7ID4opcBMJuVM+MTA7cmLObE
Fdoa2TvJu5rpyrnedHPNge98P95kZJ/UtaIqJL+zzGkd5rip70DJPuQ6CkVwXlo
pTx2EKwi3c8H5QZtZUKLYeh8x/1LidZeLBdMLut1Lc7BmD0j0wU0PrwaSLsWAYmW
L16/cY9xPwIqmC8nST8rH94QoB15eFkm3HrDYjJZrNybk0RKP5oLKG8QoUO2kXyW
9TfKNplK0YcFGTgKcTK6luDSM2cCdwlpdspwCRLPX7L7LZYak8nEfAFD6A18ZC45
meBQgY4SuDlucygbFAHitrXLv4ukBDNRFxe+2dVzig5ryHZj97H5vp89aYH1W3gh
GS/k57744ziY/ACTz8cRxVKgM1oTYjDsNKvmM2J6ij7vRxuMBvM/k07g+0jd2hPV
eWyIS1VKeTlLG7sRbd+GVQ9jHKpP/7YonXYUrOkpCdG/5YOX6Doo3VlVTRi00QmC
t8716eEJLd7ivorFYFELY5eOEUCjmNLswEgBr2kPm1Mkn8RS8mCNT188nXgTzZk7
jZlrurNkkqQM53xMaImQImS+N20GPoa2RdHW+R/veP7LugLo7gozMi/zz9+kcd0Y
wPahWnYsZ4uHg/zbGFMIH/iwQ04nv58gOLJfJafGarwotFvBifl4Nd607lmVJTc0
OjVhhisWL5WDIC82+DDu0yDLH/huzY4W7/ks3Hn/UpEwzq+A1/bY3MbQomew5hTI
99z/Ieulfit8/0POofN3lvMvTzeGuMMsBiMFp2nbCEHrwWCN9uae3eAbj3E0OtAM
AIIfxyPiV+bYm0IA58t7Ur3kMG1KZmcKG4DF5zrLlu5ArX/T7258Z7shYff7WtNU
Wfo=
```

-----END PGP MESSAGE-----

A.2.4. Encrypted and Signed SEIPD v2 Message

Here is a signed message "Testing\n" encrypted to the certificate Appendix A.2.2 and signed by the secret key Appendix A.2.1:

* A v6 PKESK

* A v2 SEIPD

The hex-encoded mlkemKeyShare input to multiKeyCombine is
16a22adbced91ada60b5561611748edd2fedc51e0770f86d7394870062e7322.

The hex-encoded ecdhKeyShare input to multiKeyCombine is
5ac67eab192f25ac99d87543e6fcd3a4769cb02c9d1afdc79354c2baa2289e29.

The hex-encoded output of multiKeyCombine is
5c5652a690b55d1e9545fbd722f838cd8ff4d3657af5a9026d02f3185ca74993.

The hex-encoded session key is
160867d96032b640208c1c92174d0270bb89189d72320711acd221bbea2a26b6.

-----BEGIN PGP MESSAGE-----

wcPhBhUE5R2/6lGTaYi1Qo//pPlfmF7WGlEjlejDztYnd2xigU30kc86MsGI+wTe
RO1LNVy4L03KG04LC5S7Ahh1ADVuNqplgbBCjHeiWsMeBIXfwUYH35+X0TB6P++e
pA/flGSeFj2F/ubBL3Xo5r70GeOD55hiJwNjwKj9tEhTkIOa0LFaNwJblCsTTW/Y
3rRQB1SzvyPk9Qf/iyN5t17/89j/piKJXulgLXnLUONBYeqA+gSV/0FhsYHambvL
ucx5AE6GUJzsFxdjCwVR7/7zdCU6jsfvPSeZry+7CSuTAFYqrh3x8+62Kio0vcoH
irJrIRQsQOo6ygvmlJS5vQUF7lwNimpXztjWjqQBuaDwSuYPFVDPd4xIOgmT/oJt
MCA8UOKxdoANh+XnjqZAsL5EjTPf3UmGLhbNj46XssvtUSuW4qvgFVoR0FNOEBrt
9Tyt7fDzdZkD+RkyLK13igSLXVzB4Ofn9E6dddurICZkfNtQofV/t+qJUmc0qQKs
cFrwFO3xt4UrgLFH8SnWJ9Rt6tLaahUD2pY/YNkSSC1+HFPbFSsXTcnfOt5vfeQg
UVmP5TRVX36qe5EqRt4zZwBzv+Ph0lMWQueKXsCHGz6+cFR76nktSiOFTlwYtudf
fCrvf+hXuGn0mKk3qlTkmF5vOt+NNiqXt+nzJ7bqdkH3kAQ2qG9UHi0Ey1X7ykI4
MKqjNXp3ovwx20hUYrPMRo/XXz7s8ZiqX5q544kpjwxU0n9mvWYEjr3hePtAK4YD
6WRtqukyuxSPvonhdyq+x/awcg2AQe5tPH+eMTt/cmlyBdzgVbNxUcy5+87TQJhJ
Ia425biPs4kZkulNP2pN/kVeT8Me56zhdaJF2OwcUGOSjbkgo/F4WyE5bYK7gm5G
/40hnmYIGWitGLOmN3jyEIceSJsLazJ503i08ZSRjNwMN6SCOTFn0PMaJAHwa15
jshrrUHJpZri/4Lv8cX1/A5OMULSyKNX3PVk6aZPtzXD0m1MCC0M1vIboFvD1qEx
feSnmaN+xVxjVsA76C0cqQ85XLM8KIqzJXLQnG+4ebsa1OrYreo/1FFlRouY42uS
VY+IZqi3Z2iQou9DKdYGWQAGjBlrdeWe/J6R9BK5n9E5KZ2z9HlJngW3FXX7yxxm
ZogvoGgEwnKuxfjl38sgtQh8bhXOXs9roNm8uDwuk1zwd9SOx6vcL9h6TBaLPw3g
mwYrawlUONTMBjbU2KGmKqx94V0yMIK1FEA9LLB4akWO4Gnh/qUQbq6Tptb6zZQL
w3GQv4VzOEwSg84Vz7dQWw3hg4/vRSL+TQ1KH5hS2CuCcpVjJvC9hpatnd4DRsVi
/bLy1BRO2VJXFyHERR+gVvN7xo+bAnhC6aasDHH+hqyNagwQBS1upcCr7p+s672W
7GS7IVAiLvXcsxS3A5xpkmCMb/+2BY34HKW2MsakDJlwY7zYcqEHTqkseHNrarj3
AhJ5ulRYFJJWtXn3J8F55qP7QtIje2ykrm06wwwV1Yfd7DTzIKELZT9Qjyhf9nEQ
enlNwJgVGPNS87iYII1js7fP8K6YyfknyDKNzDjPCJEKL7g40sBjAgkCDJ38fP5P
GQmlf6F96z1/4ACgraWthTKdhMHXMxRVYxO3vgFpnQwEMxjelzZBkaN355PqAYU5
1NuIJCocAghdlk5ygIWF9XGsACGfgvmxCSMV+iMm4E4nI/j6IuJndr3pXrUwo+gS
g2Akz4b/QFZ46wJbFXGGzEo2rGmpXLoYc8lciIcU7klRo0g0jafd44YOz21x7ZYI
UAYRNdYOY5bMdfgXWUYRmXc7VtLJDS5X44nuCA8JZtSu2yilq9vYHqzN0RyMMijj
/D5P3hAxUV3oUfs68oxnGh49k2pii+Bg5iXLvn6Ahxp2rIksECWlkXVKCH91x6nE
Fy70NceqH2b6JeETZ1xFQEiEInk6B9WE558S9Mi6yjeSXdV65yNK2km5

-----END PGP MESSAGE-----

A.3. Sample ML-DSA-65+Ed25519 with ML-KEM-768+X25519 Data

A.3.1. Transferable Secret Key

Here is a Transferable Secret Key consisting of:

- * A v6 ML-DSA-65+Ed25519 Private Key packet
- * A v6 direct key self-signature
- * A User ID packet
- * A v6 positive certification self-signature
- * A v6 ML-KEM-768+X25519 Private Subkey packet
- * A v6 subkey binding signature

The primary key has the fingerprint

a3e2e14b6a493ffb930fb27321f125e9a6880338be9fb7da3ae065ea65793242f.

The subkey has the fingerprint

7dae8fbce23022607167af72a002e774e0ca379a2d7ae072384e1e8fde3265e4.

-----BEGIN PGP PRIVATE KEY BLOCK-----

```
xcdLBmd0hYAeAAAHwIgoGEBiAbt7rv8r/76EjORZbGScxv3ZXOBMKhZTrhqxuLcI
G/61UbWg/25J/AGibQkF/oUCH/u375ep8gZUVcdIHwBXuQuAbhDcL0WyN66Yv7qg
PmjtyU37ZZkm3bTfACG49RrSbGQcvpgMkwC2pS18FfB5Y4oNfHtldLKf24aqmqyO
kQw3w/vET2PMNO5dgPwNNRt0kDZrBBjZFPXtNnZaG0K5Tw4K1QE1Q7UMRYPRi9Qa
LfLXBi4ACdSK4Q07vGHCLkZBxMdy38sth+34TGrMzbqCSk+gJeWwfx66R9lPrr22
YgWAL7dJSRasJam529x4PU48VKqrzlp0sUowgb5k/4/kex+Gwtc5ZI5ChpjnzpVQ
G+AkY7K1giJ5kTKa3xY7yDVuui9ibXbNULTJl5MuObY+f9fsR0edBLzOM3Z4Mkt0
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-----END PGP PRIVATE KEY BLOCK-----

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A.3.2. Transferable Public Key

Here is the corresponding Transferable Public Key for Appendix A.3.1 consisting of:

- * A v6 ML-DSA-65+Ed25519 Public Key packet
- * A v6 direct key self-signature
- * A User ID packet
- * A v6 positive certification self-signature
- * A v6 ML-KEM-768+X25519 Public Subkey packet
- * A v6 subkey binding signature

-----BEGIN PGP PUBLIC KEY BLOCK-----

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-----END PGP PUBLIC KEY BLOCK-----

A.3.3. Encrypted and Signed Message

Here is a signed message "Testing\n" encrypted to the certificate Appendix A.3.2 and signed by the secret key Appendix A.3.1:

* A v6 PKESK

* A v2 SEIPD

The hex-encoded mlkemKeyShare input to multiKeyCombine is
0987fe72ad5ea58e73344f9a2a543f4131d9fdb7cf07474f501430a20f705b4d.

The hex-encoded ecdhKeyShare input to multiKeyCombine is
88f3e9a8de1917127b4b758f6e83bd4ce00faaae01bd8b6e412a43a710b26012.

The hex-encoded output of multiKeyCombine is
a4904982f7caa9c9de690afd772d8bfe027alad6a5bbda00db68963fe303ae8e.

The hex-encoded session key is
adee68618b302d4bfd7ae3d432bc63a1clad7f5fd6e7fd7bdedbb0d0b14a5c9a.

-----BEGIN PGP MESSAGE-----

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xK41KWZBGxwZDg7mah3xkOdnXeLEPKONACf+tvYjoS9N9YDbD42y723pmYIiTROE
17APmjuZmvBlZtNhG58IS45JqOTaNd4jB12P0se2ZoXyGCTRJKVqXM34hiKaAHUD
d05+6FdfZa8UeLxfyn+cQZLatJMCshUIGfIbe89zzvFLG7yIDrRGZFTQ1Z0+s+FC
sz6s4dQwCBkFW5GgQ5x9HdEz4jWsje2RBh347G8q6Sd2LOy7YuF4hmiPkL6vTMFy
s8yNwE7yT09Tw95sgWK2RgLLC95oCiEyMOJyasS8y8yKlwRyJEc/xJk5m07FcmV3
4zjzMJThPXIfL15JQAOhgsSlxcekmuMGIAPTW8lp270uzytaf8hbc1wVpMIiRc05
OudPP1bbC6ze2lBBZzndi76OUYki3BhGxUM8icDl1DujplT/rs06bhxAB6QCc3sM
aZYG/qwhzTo+PgIjbi2Ba66A/lWQIza229mcDaxB06UizhWV9xRNygz1bJscccH8
FW4l42aKYtYD/UbumdQNJbK1w6jG/Q6JQSF6F4Zh38SaoUCF/kkLTeIbuaKdgm0Y
4SDs8NoRzqlztKlQrFtJ8Zkr9y0gm8TwfARNbWJHJnBr5/4ECXZ86f1t82hKaysz
KcsQz1b3+xEmfLJmcbkeKukHbhR6EOdaC7DXbTMXHC/MRxG27w3Rhoke5ufl9pqS
zi4fHC0TX+vYol2nOxUbPlveLv5l+mg6E0uMs5YmG49xNZigvvczzytUOOH0tWFT
7sQtroE5KfeaQRNB7yqxInMFPqMgczm22QmtRJKST/OfskEssZFdc6kOMzN/iWNw
+Evc2TxrQp53Rfx4GWLJgVeBJudRMAWFzCVJ5Jx00hb3e35gvPXjpceuh0OM34Hq
utrnrQtlISxQmw+nNwSj7q6pF8mJdGVz56Nj245gkO70G3lmNImXvWF1JsJnRTnU
ak/MpQwGKTcC2WrrqWhgq/WTs+8Nck5Vfa2P
-----END PGP MESSAGE-----

```

A.3.4. Detached Signature

Here is a detached signature for the message "Testing\n" made by the secret key Appendix A.3.1:

* A v6 signature packet

-----BEGIN PGP SIGNATURE-----

```

wsylBgEeCAAAACKFgmgr5RqioQaj4uFLakk/+TD7JzIfEl6aaIAzi+n7faOuBl6m
V5MkLwAAACrSBBfUT7vIas9dx8QHh41xB13AgTJ/ZWeIonCLmgBizODMi0CrzXf
mPUoww+q+7XpwVfY7GuDyvoer1fUibEW7VfV2sL8/xlYSIq7g48rENa7A/XWuwCs
JqDY1Kmb4RBmKEz8NngMftkmP6/oSey5+e6cKKsrvspxptSPHTlrd6iSUGCqSZ87
OiHjZTVDFWf4ZBSwh0RaXIfklWk5OPZKYLMdpbXwqdfPustpvr2uUPkjYCM0WwbG
GCctSj5WCiUuM3FytyGXflhIVimBwP+DnvJwtrzgI6m7E5asfbjG9dUe8RJkrMs
MQWDuTEphzTfxKowhb/jW00j0TZzjfoDzQXSFM3CMdEOlRB+koUCWvKwjJ5L6EW1
B9cZkcGyWN4jEnciOOheayo7VkvILu2y18S2ZyAo8KSsZAMn+YYW9j1DZerxnjLS
kEOQkWfOXK9JQ/qJNJSvezQKbuNiLOmtBi7HPWba+YUB3vxzlesViPEOpb8BpWvX

```

ZWVwCUKDXnFtApPaWxLSuDeXBzeVrvsmWd/yPfiNCp+5IAmgyXSTEHJPJeH4+Y7x
k6eAVm5iRcwyWom5CidlOXU/aZEvkPhJd7w0UmSiU7iQp2/BLlLkPWoxsLO/+2sI
2SnrDh/HBotSWrly/0KHHUkkuQmNCbIhDEjVDqgvi8TFohV0+TQIR/D7P0MvuOLK
yGNwRwFGFMiFcrOXfiXuXAfgo5eLOIO5isF0N4eAoai38VzcAbE/EQ3TM38YvKET
wFkg9dEp/h6kAi+GXNFz4YmyBCHtHALdyAJTfikrdxrrgEOhlQgzZsq8dMjMA40b
AEZviZoKdgWLj0vnxLkG5FX2Mc20+hpYfDwXoW2Hec+3FJiKnXpRQprb4hpRsEXT
KgcC5gciPSCJ/guh/djkYPj/lURNmfWfSx0RnvHGstUSnwIwVwDruwd/8qjKj9A
esr9+viO8pb00muelPNPPI+RL5xm3psQViylSZiHH0WuyCwfflT2hORbDFs+iH4Q
y+Cbwlg4wsUBPvll/0jyeUg4h2tI9oNHXsKjfcJlPW4/vaveeumV7NYIqenLe2bY
y6yTu2AjlWzKMsuYKjr8OjPkH1S09No4xYuoCP/QHt0l5eB/TIgIUwSmLR5SEt5
gBdIAF6yQSmEIBceZODEWAvCSW5KJGOIdlhWYJTAtdWqdmku8JSpvcUR1C0pKPs9
J+VgDuDH9PJEMgCOBwwOwg2ctOAVZDPx1/Ar33SutMbOvlZkC/CjxnXdhJnJ0Sjr
QlrW40X3lck0gDKwVjPAPvvCvg6B/AwipB5hBx9rKoi0pRg/rRHFYZDlNEuz8bT
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TyWbR0iIFIEOqJF07X6F/0Ka5PqKzQW30mdlXjrq1H/xelVOolA+S+iUIk4f2yaG
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AZLEXiw8BSXDkuT63qPcE/VTZwhpSaluE700G4E32cOfEGGQvZa5PUBzNZFUcxcp
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ikQf826SRbZG/+kPm+OzJj98xiieUTmdpcLjNveGji/r3YCFKKR6dyFACfI/mqx0
EFbqjJahwYin7OzOYMATycxJM5SqE+rpRmtUi2aRqBjKkGkZxJxxNYSgrg2Gf4Uz54
TlzhOoMMkfNFGDFCcc6zwiJ0QzWgBmiq+tIA5UEPNjZzhcCQWKihpM7AE1GTIRi
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QMUSOF4g5cG75ft7BVstA3zSvzqvwfuqVfJsIFYs41c9tKhPt3mL/LT4nFPlr5F1
K5Bx5fVT8bl9nkvvC+RwdtNddJ9tO4DkbpkQe+yW4cuoZ7kzmjyYereTBRxFPIkn
xWdZ2KUkrjUjhHvu15ZdjQ0PK8MoUVM5XtRtXGFNZOODq7gGHvcUpkb+t6eXJxle
L+L7gh+WvqxoPyHfDP3njKkZt5XqQetyTKyYCJasOjoTbEg60TrcFInt5kdkGiDi
ZVhIiWTRjqrNg+o9ZDFbqQsFvJSLEUTZ/bi8gx+ZczVqor7UZgoTbTaRwkks3hCs
2iPwCDS5EVvJNfYdsinzBrVuMNMHlbymegAJJo88U7oo0SvQYbyI/zgdQBeSnp1D
IprHNDKh32blxI+3lyPcUiSQYzqgv+alPzNNHHT9IcY8e14zg9eYlVJuIuNFdbps
X/na9A02uptbRYJoTYpyZZAmY9DiStlZuc/caIlwFHCWkVKGs60gT8gHP++nc5zv
KPPGeaqMrB49sEouYi2lHT+M+2kRRNZSKGzV12iMFSohPIJlNalulUdakr0JPQEP
S7HTbSp/cjl+lHuhNYYKbyjqbuMPULtMzeAJ3dgZ9cC2npL8baQLfE0LTVwJHTGO
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4zlxX/3dkC8R2+lKsEmQLXH/vensi42f0vPKdtjl++rOfx05KNnJilJ/nXB2Gmgl
d6SAikRJC8sIOg3UtFaHM8Ix3SVObl92Nh6V6606rAJuDtZmKxzVbQylnFSURi0d
j5dltrF4VVirPKDIC8rCoH2ECqzZy9wULv7UKGMpWjlfuWH6NnpCG3JuW36Ha2Fz
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SW3Kvbtpe6uJuigwXJOu9iywjl+PQC9mj7tKlEqXyfoqx0koqeORJM4rSsX4CZHA
thEeU57C6qZf6oRlb6TMYfQyDkpjdK2IHwwXy+ydtO7YvYMOxNiWZTX8PBwvyoA/
Zc0bBePIfWTMup+8cgF2WXEiMMAUolmW5VtdTA4izterzgtPSsSITbyIrrGo9tJa
Z9LOeAEH3Y6yaPw/HyKY049Slpg2pNrWLOGUIld295bZ9QvWa0oX8aSWmLhzu+Lq
AkS6wtrYvBXRtJbI6wzJnKsKeZyIcf8uXtl+5PnzIhWWGODMOqS0YrDrcbiQITYb
leBokL3YRTqRBHMDdgbB8d54Is29dfhAGDbH4DeFHPSAVSGvvB36EhgPqO92d+rA

```

9AVwpIRdw/3zeHgVpiPuP2W5Vqr9e3bApkT13EPs0W/haCQwwQaldRPqz0n6UyEz
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S5MJEqAw+LFej4aclMfHGxiolzsDoo8bEPEcKBL0pIZVpp+2lQjTlUQeMuOJGa5H
bG3FQQtRNNfXNPEqPL+Uaf20kEJHDzas04q8bVpMsW/RRwFxolj4DWckwVUOvrEi
B4xa+lNRPiXvKpZPWR7MNKkZZsimrRdX3+vW95hyVaN9luoge4CmyKWWchM7TvcF
lbPC+YTNWWw6WMRKRsm/dyQGEKvPZ7/7vy908+u8YLhETdIYPHkRSVCNecMulBld
an1VD3Bf9XbzetuNLhmPFAP+qsFi3dlaZgrhld681QL6GpHf58zqZ+4UJr9CIyB2
3e4pfy9u5WrcI507cUNW5mDkSsG/wy93AJOGAY9H0BGNFEN5wyN8DgDhe+Vlt7pd
pH8oB39pqA9Mf2RuF9XN8FcOVIJ+BwD/fi43uNrX42pI6m5bwkTMgaOYzIsKlKML
iBq9lKneeEqIezGgolnAk3HA7elwhyNCZwPe6upamXDlxhkc2ypql6FilKlGdTmR
IWmJCz7gHUSq/ECgui4pYtVM+QX6FJTqyGxiShiel00/3iDgfQoP8qsVMSPailU
cs7Bw+DYkX2VlTLS4H9WjKfahKMAFVmgPBYI4i8ARoQmhItA688kplctrU397/aW
w3Dyoa8LnPG0kVrh0kjy9pjs9IegJt8GayrHr0i+ep/27+DY18ag5FMIExmH0URN
WazbGtQKJLhp6JGintpG8yl/nFhHwIbgUSohFStSdXmKptxnbp/NdsfNagoPEyBh
xcwAASBQgIkTHCzXJUltdtnrzwAAAAAAAAAAAAAAAAAAAAAAAAAgMDxcdJw==
-----END PGP SIGNATURE-----

```

A.4. Sample ML-DSA-87+Ed448 with ML-KEM-1024+X448 Data

A.4.1. Transferable Secret Key

Here is a Transferable Secret Key consisting of:

- * A v6 ML-DSA-87+Ed448 Private Key packet
- * A v6 direct key self-signature
- * A User ID packet
- * A v6 positive certification self-signature
- * A v6 ML-KEM-1024+X448 Private Subkey packet
- * A v6 subkey binding signature

The primary key has the fingerprint

0d7a8be1410cd68eed4845ab487b4b4cfaecd8ebad1a1166a84230499200ee20.

The subkey has the fingerprint

65090e147a8116ab7f62ab4ec7aae59d9e6532feb2af230c73cdc869fbc60c8f.

-----BEGIN PGP PRIVATE KEY BLOCK-----

```

xcn9Bmd0hYAfAAKWWpo8Cf22TCokS8czVy5ks51QTmpeHf6T/HHDrJHaD83v3y0
UzGLCL39W7LcHzN7WahvkGx4N/9GgNxT8Amc7VaqNhnHy8FV41mw/5+uZ5M0SXiu
U+a6JiaOfFwiU04XxV7MkcS8T69o973ysaTouD+i/aEw+q5n2Gpf+1S2INzzpgQk
ehCclPg6VDFQ4DRQip8f4ZPHGwB4OU7CZTK55JLcQd9X2rgulx6HqdAKn69xcX2t
p8HNIwVTSWlyr9KqMx6/gpAaoXv/ttQxGeqaf7b2mucscbKHTTr5BPzbD/Rdagbm

```

e04nrvrg3vXXiMgg74q/RpVAAdnWSGmhifD34J1icqlX5HqcfOqT2P6k4lG5/dF
AX5KSK+vab5ZROTbsd6vQKxIqJw2pjs43efIvc5vVXmYg37Mxut7pz0CFhluQ+t2
RkygYIRb5Sr9P+X/JdMDS3WRbaT3ih1NeubM4kkFfkzrgCOYL50Uzsc2nb9HxIlh
MZQ4END73hIgy44jW+5N90NQdv2TSLowr2uZCSM0+LcI+wW17eW1RQmVmcSCy7LE
aOcmu36Zm4UPlNvsXMAcGi8dvYtKc+O9lhCgJp2ulrAhHKBVZhHoGPFgI8NW//dl
afw0fFE46atIlK5NvjGuGU0GivcgDjBe/2203U3rPk88r0WRKPb3S6Mh1PTV01g5
BVjhSu/vXR2JpY5xp9xuJAT6J6jGcPMi9SL1r26HMqipfOUJDci596OVU19W8Hwp
Nk+sWsv9SCLZVcNYYOoCXGf7MO+j0hb/u3OyVjU/Aq/Y7+DnqyjgirhzPlf0FI48
XnoIe6SYOdf+Ca4cOjHSoKmd8Hn6nllJbAQvO+3wvgtQtwnMW/14lCPK0WUS8s+h
fgQRelIGxlZUmloayqFAanCu6UURXcA4F/gcU0+Q+JJUZZhBjkc1XGAhrqytKSb/
btuke5mjo/QhxmEkCe5WR4nw+JAnipToVpToxTMXQk6z8ZgSMdk3eWckOVfWb/dU
4xk8GDzoGiwemjVNsv2kSRyLBQ2HMe/EJbLAAGkSDFR+ye2eLMqSFxCem9Agblao
fQy0Z/OOJUNLWel0GjFEwscb5y6NV4PsAAmGH2ye3qCBF/+Zhh68E/3pvcnUMzh0
OZZ8xeOldGQt+4D4hKG5lxfvDao+x2NNrwNyQqX2WY8dLTFq9Zg8yBH3+dv07Oq
23FtcHhk/E4lvT4RcZb5esuMhlSJGuXI3ozhNR4BcNL0ryxIVsWkINHjFUNxGwQ/
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to2TOBPJBSTNVd3GoYJ6nJeKkenGFCHwlgHliMuJtSaUkfEp9yKqpg7gG3JbDh2q
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V90f70QMtcCsn32dOV8qWSiu//adIggFLBuJpU66aqK33fMBOGw/RdhQWIdc4wQU
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pkaCphqXqal070x/X0Iv2VcVtLIV2tJLbV57PX1dI19v2k4uxjBjFPAu6IeJh0rb
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UiNH7PTWCMez26x8wm+M/b3QXX2vAAeX/XY/Osz4N8ZtSK1jdwY3dcCdHrygPCX
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HgkioQYNeovhQQzWjulIRatIe0tM+uzY660aEWaoQjBJkgDuIAUnCQIHAgAAAAce
8SCJM+eSZzkiH5Tms2kr1Zqp25bniOKF3Mox5CcvacW3XqG/MFmQT3n6lra5mq18
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d/v+0/gJG8U1Z6LIY+n5U6u8qlw5Z5ilRgfjDBLxVeRaYsOrPqRf7myoL6qEHBxq
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flvrGuUnPzF/H0kNjU+6eoy+VRSUB35fcsMFmTInHJVP27WWyCgSv6hXm3eenmNw
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A.4.2. Transferable Public Key

Here is the corresponding Transferable Public Key for Appendix A.4.1 consisting of:

- * A v6 ML-DSA-87+Ed448 Public Key packet
- * A v6 direct key self-signature
- * A User ID packet
- * A v6 positive certification self-signature
- * A v6 ML-KEM-1024+X448 Public Subkey packet
- * A v6 subkey binding signature

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-----END PGP PUBLIC KEY BLOCK-----

```

A.4.3. Encrypted and Signed Message

Here is a signed message "Testing\n" encrypted to the certificate Appendix A.4.2 and signed by the secret key Appendix A.4.1:

```
* A v6 PKESK
```

* A v2 SEIPD

The hex-encoded mlkemKeyShare input to multiKeyCombine is
f18f161e617b8ce5968f109aadeale7e1511d10165768d36127ba913c00637d2.

The hex-encoded ecdhKeyShare input to multiKeyCombine is 732860c8114a
e84a964664b1f607785d11bc7d24d5324510adad89bd52db7ee0df9982ad0d1669bdd
05556330c86f2dae9e2edea42e05bc5.

The hex-encoded output of multiKeyCombine is
ef1e32906f67d39bc800d90cabb0033c77ca6dce8ffca3e96d9c7348e2e8c16e.

The hex-encoded session key is
0588ce40b038aac353d1cf8c67a674b412985105794821013ef154f786c4d89d.

-----BEGIN PGP MESSAGE-----

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```

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r9dO/yldgvyxcbQA=
-----END PGP MESSAGE-----

```

A.4.4. Detached Signature

Here is a detached signature for the message "Testing\n" made by the secret key Appendix A.4.1:

* A v6 signature packet

-----BEGIN PGP SIGNATURE-----

```

wtIdBgEfDgAAACkFgmgr5rQioQYNeovhQQzWjulIRatIe0tM+uzY660aEWaoQjBJ
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 -----END PGP SIGNATURE-----

A.5. Sample SLH-DSA-SHAKE-128s with ML-KEM-768+X25519 Data

A.5.1. Transferable Secret Key

Here is a Transferable Secret Key consisting of:

- * A v6 SLH-DSA-128s Private Key packet
- * A v6 direct key self-signature
- * A User ID packet
- * A v6 positive certification self-signature
- * A v6 ML-KEM-768+X25519 Private Subkey packet

* A v6 subkey binding signature

The primary key has the fingerprint

eed4d13fc36c78e48276a93233339c4dd230fd5f6f5c5b82c63d5c0b5e361d92.

The subkey has the fingerprint

3e8745a4bb488779e0f32480fa23f8d0bfd8c2f49d7f74e957e1c2ffc2ef4bfc.

-----BEGIN PGP PRIVATE KEY BLOCK-----

```
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-----END PGP PRIVATE KEY BLOCK-----

```

A.5.2. Transferable Public Key

Here is the corresponding Transferable Public Key for Appendix A.5.1 consisting of:

- * A v6 SLH-DSA-128s Public Key packet
- * A v6 direct key self-signature
- * A User ID packet
- * A v6 positive certification self-signature
- * A v6 ML-KEM-768+X25519 Public Subkey packet
- * A v6 subkey binding signature

```
-----BEGIN PGP PUBLIC KEY BLOCK-----
```

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-----END PGP PUBLIC KEY BLOCK-----

```

A.5.3. Encrypted and Signed Message

Here is a signed message "Testing\n" encrypted to the certificate
Appendix A.5.2 and signed by the secret key Appendix A.5.1:

* A v6 PKESK

* A v2 SEIPD

The hex-encoded mlkemKeyShare input to multiKeyCombine is
5dc60150f5f965ddc8014b6aa2ecae1831467e98fa315422f238984d6421a22e.

The hex-encoded ecdhKeyShare input to multiKeyCombine is
9dbd0f9bde7fef09817146e53a0b5ce7d27e79612670968fa0025422c578ab55.

The hex-encoded output of multiKeyCombine is
ae8ab57801911c04c7b4c2a2f665cf8d8a8188f948c2a65e39c292d9b1d86e32.

The hex-encoded session key is
e87567cad8fee5738f92090feed009d8af95437fa664f94da98776d966bbbc52.

-----BEGIN PGP MESSAGE-----

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-----END PGP MESSAGE-----

```

A.5.4. Detached Signature

Here is a detached signature for the message "Testing\n" made by the secret key Appendix A.5.1:

* A v6 signature packet

-----BEGIN PGP SIGNATURE-----

```

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-----END PGP SIGNATURE-----

```

A.6. Sample SLH-DSA-SHAKE-128f with ML-KEM-768+X25519 Data

A.6.1. Transferable Secret Key

Here is a Transferable Secret Key consisting of:

- * A v6 SLH-DSA-128f Private Key packet
- * A v6 direct key self-signature
- * A User ID packet
- * A v6 positive certification self-signature
- * A v6 ML-KEM-768+X25519 Private Subkey packet
- * A v6 subkey binding signature

The primary key has the fingerprint
d54e0307021169f7b88beb2b76e3aad0e114bela8f982d74dba9ca51d03537f4.

The subkey has the fingerprint
d8875664256c382dd7f3a5ce05021088922811f5d0b1a1f8c7769944a51b7002.

-----BEGIN PGP PRIVATE KEY BLOCK-----

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-----END PGP PRIVATE KEY BLOCK-----
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A.6.2. Transferable Public Key

Here is the corresponding Transferable Public Key for Appendix A.6.1 consisting of:

- * A v6 SLH-DSA-128f Public Key packet
- * A v6 direct key self-signature
- * A User ID packet
- * A v6 positive certification self-signature
- * A v6 ML-KEM-768+X25519 Public Subkey packet
- * A v6 subkey binding signature

-----BEGIN PGP PUBLIC KEY BLOCK-----

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-----END PGP PUBLIC KEY BLOCK-----
```

A.6.3. Detached Signature

Here is a detached signature for the message "Testing\n" made by the secret key Appendix A.6.1:

* A v6 signature packet

-----BEGIN PGP SIGNATURE-----

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-----END PGP SIGNATURE-----

```

A.7. Sample SLH-DSA-SHAKE-256s with ML-KEM-1024+X448 Data

A.7.1. Transferable Secret Key

Here is a Transferable Secret Key consisting of:

- * A v6 SLH-DSA-256s Private Key packet
- * A v6 direct key self-signature
- * A User ID packet
- * A v6 positive certification self-signature
- * A v6 ML-KEM-1024+X448 Private Subkey packet
- * A v6 subkey binding signature

The primary key has the fingerprint

72fff84863aeba67f0d1d7691173247dd427533b9d7ee76011c6f77f2ce9fa7a.

The subkey has the fingerprint
570a5bbab93169876a8240da35a1ada7ba8a640aabe3ab467c797214844df15f.

-----BEGIN PGP PRIVATE KEY BLOCK-----

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-----END PGP PRIVATE KEY BLOCK-----

A.7.2. Transferable Public Key

Here is the corresponding Transferable Public Key for Appendix A.7.1 consisting of:

- * A v6 SLH-DSA-256s Public Key packet
- * A v6 direct key self-signature
- * A User ID packet
- * A v6 positive certification self-signature
- * A v6 ML-KEM-1024+X448 Public Subkey packet
- * A v6 subkey binding signature

-----BEGIN PGP PUBLIC KEY BLOCK-----

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-----END PGP PUBLIC KEY BLOCK-----

```

A.7.3. Detached Signature

Here is a detached signature for the message "Testing\n" made by the secret key Appendix A.7.1:

* A v6 signature packet

-----BEGIN PGP SIGNATURE-----

```

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