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RFC 9980
Post-Quantum Cryptography in OpenPGP

Abstract

This document defines a post-quantum public key algorithm extension for the OpenPGP protocol, extending RFC 9580. 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 (ECC), and SLH-DSA (formerly SPHINCS+) as a standalone public key signature scheme.

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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" (or "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 ML-KEM and ML-DSA 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" (or "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 KEM based on ECC 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 Sections 4, 5, and 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 Elliptic Curve Diffie-Hellman (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 MLWE 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 Edwards-Curve Digital Signature Algorithm (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, and
- 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

ID	Algorithm	Requirement	Definition
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 it 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 trade-off between security and performance. The SLH-DSA algorithms offer an additional performance trade-off 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 inseparable 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 Sections 4.1.1.1 or 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` and 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` and 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 the algorithm and the KEK as the 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 with 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 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` components 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 prepended to the wrapped session key in plaintext and its length is included in the preceding length field. 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 IDs 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 ID 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 comprised of 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 `xi` 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 `xi` 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 Integrity Protected Data (SEIPD) packet or `AES-256` with any available Authenticated Encryption with Associated Data (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 of `AES-256` and `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 of `AES-128` and `OCB` is also implicitly added to the list, it is added after the pair of `AES-256` and `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 particularly 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 of signing with both a PQ(/T) and a traditional key as described in Section 3.3. Note that signing with only 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** instead prefer 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 document 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. In principle, this context parameter can 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 unequivocally identifies 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 (second) 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 reusing 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 and SLH-DSA as PQ(/T) signature schemes.

Generally, 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 second preimage resistance of a hash function; 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 bits 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 has added the algorithm IDs defined in Table 9 to the "OpenPGP Public Key Algorithms" registry at [IANA-OPENPGP].

ID	Algorithm	Public Key Format	Secret Key Format	Signature Format	PKESK Format	Reference
30	ML-DSA-65+Ed25519	32-octet Ed25519 public key (Table 6), 1952-octet ML-DSA-65 public key (Table 7)	32-octet Ed25519 secret key (Table 6), 32-octet ML-DSA-65 secret key (Table 7)	64-octet Ed25519 signature (Table 6), 3309-octet ML-DSA-65 signature (Table 7)	N/A	Section 5.2 of RFC 9980
31	ML-DSA-87+Ed448	57-octet Ed448 public key (Table 6), 2592-octet ML-DSA-87 public key (Table 7)	57-octet Ed448 secret key (Table 6), 32-octet ML-DSA-87 secret key (Table 7)	114-octet Ed448 signature (Table 6), 4627-octet ML-DSA-87 signature (Table 7)	N/A	Section 5.2 of RFC 9980
32	SLH-DSA-SHAKE-128s	32-octet public key (Table 8)	64-octet secret key (Table 8)	7856-octet signature (Table 8)	N/A	Section 6.1 of RFC 9980
33	SLH-DSA-SHAKE-128f	32-octet public key (Table 8)	64-octet secret key (Table 8)	17088-octet signature (Table 8)	N/A	Section 6.1 of RFC 9980
34	SLH-DSA-SHAKE-256s	64-octet public key (Table 8)	128-octet secret key (Table 8)	29792-octet signature (Table 8)	N/A	Section 6.1 of RFC 9980

ID	Algorithm	Public Key Format	Secret Key Format	Signature Format	PKESK Format	Reference
35	ML-KEM-768+X25519	32-octet X25519 public key (Table 3), 1184-octet ML-KEM-768 public key (Table 4)	32-octet X25519 secret key (Table 3), 64-octet ML-KEM-768 secret key (Table 4)	N/A	32-octet X25519 ciphertext, 1088-octet ML-KEM-768 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 9980

ID	Algorithm	Public Key Format	Secret Key Format	Signature Format	PKESK Format	Reference
36	ML-KEM-1024+X448	56-octet X448 public key (Table 3), 1568-octet ML-KEM-1024 public key (Table 4)	56-octet X448 secret key (Table 3), 64-octet ML-KEM-1024 secret key (Table 4)	N/A	56-octet X448 ciphertext, 1568-octet 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 9980

Table 9: Updates to the "OpenPGP Public Key Algorithms" Registry

IANA has added 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. References

12.1. Normative References

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12.2. Informative References

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Appendix A. Test Vectors

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

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
hBTuKijHaDe4/1ZcaYn7Z67De15iWPC/vGa3J4DCngYfGwgAAAA/BYJndIWAAwsJ
BwIVCAIWAAKbAwIeCSKhBseJ4X2dvcp7PIM6PAY/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+byq3jJwhXETaUBKV1yAI0Q7BfXkJC3YN0sGUL
B1LIvZBSlFEx/9op4ncn+0J9IKeKzuu449mu2UdNA/XK+5wl+sGGdTVNrJq3s7R/
BktVNWBMG0t+eYBtItQaxwYucsOntcO344uH1BA+ZHIALxsHN6KrZPCeqfF9ppTB
8UAlvVR0JATPtyyuxFw6MUex06GlYzirMXafH8jK5KqZJbjBKWwPo7bIsBBbLpqk
9yQxb7YYJ6VQMGkitrRwWNwQxTGDTee8/FyUMIYklGMewmG65RkKrBMKICsBX7lD
1cQ7fisEp7Y+WoOVqass6FuOWKJLIhyrg+A93oUsNBhGz/iEgJehP2g8AQPNMnO+
IicgIwQdV+YJRreWKvQosYMHxtopQRWKRXmmrGKPFYeozvoo6qR+JImvIDgy0gV/
eEun8iVoQbxuBXPIQXJOicOFPiWjXisG/0G3rOyRE9o0ivlxZPku2qKayfFtMwxb
NWg54ieV/uRfrjRRHOnL0SaxigY8N0FIwaTB4uMeyqphG+Ri7nSgnLVxaES9/tzN
iKlgsuAuC5k7E+XPAonGy9Ikm+oHJ9hg0XKNzvyNR/uwWhB2WFmFDRB3ldVE3/wh
LLe7yPmptIFWZ3J2LaaFqTyUhoNW6spRkUWeNMgo3MxRS3QgmBGXqou6/7RT2tdV
rWIY8WJO5SmMnZcrJ6oX3qKYgFiJJgCTuUegr/cNNJNLE/shyedkdxfG6jaQSzrL
xOWg0fBHtrd1snWWryCofwi7ray3HjNnKjNddfiChjWkLpu5H2dYM/CzdnmmOlk9
71vJgeZ6SrivUlwLTHDIkVqVr5F+iPXHU+Wd6hcUxrIH4eUXTJFIUYiamSqb35cg
AAzOBBS/DKwD46pOURchwRNRUbu47qiJE4AT6Ia0dTFkCSRezaJXBNe9+oisPDct
QTx/VZaktkvK4hc+DLwuMiQuQMoev0CgzLlr7XpxvCaEGYOiFTJydFtlhepmheZ3
k0puE5lY8AOJBEd1PKPEDzwqD0wOBxaMTEQGiPqH39ENs4q08BcOXjANqwtjxVot
JIurlBcxgsZ16RZOyiaRcCs358AMrExMScNfU+HBIONqxRkzCPOqn3sCMzQO+dwJ
uxNUoEYDcUAtYos8+1BdaHvGaeNMY3EuxQWeAJQEN4dpYfe29qlcYOwcHRtYosmL
c7OaHMQ7wnCzdJeyiHobAIgVZGZvAyW6w9cTlQd2pTdsDgSmO8or69gYPKxsmLei
b3JoytejtBhnaexyfeCFhksHzJlu48l65fDFE3h5Pmqj8vRGfFik2qbIzrU11ala
/IiJD7RnwTQCYuO++yKBa7rC1qXCXBFZixBwwTavHeEAPNnMmWxDfna2frNnFKRo
dDaTM7o76Gs7rgTIeLAzQfZih1yAJpSwjEcVDZdIRaRTrkK/4PJzVHGb4wwkOwfL
oPEBCMuAYTxfqJVEgdBi6pUsPaEOQzkUeIeOVgoFnMhP3+N22fMWkCBc/LYOThtP
XFWtHkq5jmmj+aiuyGOaadccBKWTvxloBly25QADfbYI2oImtVu1JDjFCf6PQ74U
WSEf9EvmTgsMQq/TPICLDUyoTkteLTQAwE2+uDYPxbo85xlZ2/yGneciXS8MvfqB
z8ZOI/y0C3xRsn7ZFZ2nEAaP9RUboQSSkc/gerixe47HC7X+MP6h7UAy49+ndvRO
6AHx2zZzPiDlZ0NgX3p6Aem45zjfMT7+wosGGBsIAAAALAWCZ3SFgAKbDCKhBseJ
4X2dvcp7PIM6PAY/6wNT+ArZEf4nho+wZF34A+lHAAAAAMitELFBvWMJM18SWIqP
kabwnOQbeR9GdZt2dJZF0YO8qGRmLO+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+7lgCeQ4FOlsdrb9u7+twdm46fd6pR74naBnq6puYgsQnlLp
TfnWqX6BB7sHzsQKBmd0hYAjAAAEwCIVC0MM9yTsGbi+Vd+byq3jJwhXETaUBKV1
yAI0Q7BfXkJC3YN0sGULB1LIvZBSlFEx/9op4ncn+0J9IKeKzuu449mu2UdNA/XK
+5wl+sGGdTVNrJq3s7R/BktVNWBMG0t+eYBtItQaxwYucsOntcO344uH1BA+ZHIA
LxsHN6KrZPCeqfF9ppTB8UAlvVR0JATPtyyuxFw6MUex06GlYzirMXafH8jK5KqZ
JbjBKWwPo7bIsBBbLpqk9yQxb7YYJ6VQMGkitrRwWNwQxTGDTee8/FyUMIYklGMe
wmG65RkKrBMKICsBX7lD1cQ7fisEp7Y+WoOVqass6FuOWKJLIhyrg+A93oUsNBhG
z/iEgJehP2g8AQPNMnO+IicgIwQdV+YJRreWKvQosYMHxtopQRWKRXmmrGKPFYeo
zvoo6qR+JImvIDgy0gV/eEun8iVoQbxuBXPIQXJOicOFPiWjXisG/0G3rOyRE9o0
ivlxZPku2qKayfFtMwxbNWg54ieV/uRfrjRRHOnL0SaxigY8N0FIwaTB4uMeyqph
G+Ri7nSgnLVxaES9/tzNiKlgsuAuC5k7E+XPAonGy9Ikm+oHJ9hg0XKNzvyNR/uw
WhB2WFmFDRB3ldVE3/whLLe7yPmptIFWZ3J2LaaFqTyUhoNW6spRkUWeNMgo3MxR
S3QgmBGXqou6/7RT2tdVrWIY8WJO5SmMnZcrJ6oX3qKYgFiJJgCTuUegr/cNNJNL
E/shyedkdxfG6jaQSzrLxOWg0fBHtrd1snWWryCofwi7ray3HjNnKjNddfiChjWk
Lpu5H2dYM/CzdnmmOlk971vJgeZ6SrivUlwLTHDIkVqVr5F+iPXHU+Wd6hcUxrIH
4eUXTJFIUYiamSqb35cgAAzOBBS/DKwD46pOURchwRNRUbu47qiJE4AT6Ia0dTFk
CSRezaJXBNe9+oisPDctQTx/VZaktkvK4hc+DLwuMiQuQMoev0CgzLlr7XpxvCaE
GYOiFTJydFtlhepmheZ3k0puE5lY8AOJBEd1PKPEDzwqD0wOBxaMTEQGiPqH39EN
s4q08BcOXjANqwtjxVotJIurlBcxgsZ16RZOyiaRcCs358AMrExMScNfU+HBIONq
xRkzCPOqn3sCMzQO+dwJuxNUoEYDcUAtYos8+1BdaHvGaeNMY3EuxQWeAJQEN4dp
Yfe29qlcYOwcHRtYosmLc7OaHMQ7wnCzdJeyiHobAIgVZGZvAyW6w9cTlQd2pTds
DgSmO8or69gYPKxsmLeib3JoytejtBhnaexyfeCFhksHzJlu48l65fDFE3h5Pmqj
8vRGfFik2qbIzrU11ala/IiJD7RnwTQCYuO++yKBa7rC1qXCXBFZixBwwTavHeEA
PNnMmWxDfna2frNnFKRodDaTM7o76Gs7rgTIeLAzQfZih1yAJpSwjEcVDZdIRaRT
rkK/4PJzVHGb4wwkOwfLoPEBCMuAYTxfqJVEgdBi6pUsPaEOQzkUeIeOVgoFnMhP
3+N22fMWkCBc/LYOThtPXFWtHkq5jmmj+aiuyGOaadccBKWTvxloBly25QADfbYI
2oImtVu1JDjFCf6PQ74UWSEf9EvmTgsMQq/TPICLDUyoTkteLTTCiwYYGwgAAAAs
BYJndIWAApsMIqEGx4nhfZ29yns8gzo8Bj/rA1P4CtkR/ieGj7BkXfgD6UcAAAAA
yK0QsUG9YwkzXxJYio+RpvCc5Bt5H0Z1m3Z0lkXRg7yoZGYs75PsYhpiP1OXMeic
DfLTUACVh1++iUEzaAum6MV/n1Xi3eJnGBB+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/onKXRLoP1J9+jVLbc9mITGki50jheL+TOBHsjFH
wVgycjiaAbS8K5lgfQw4rBjSqx16Smu90uphsP45SHdcYxgCXThuQ7TN+iSi+eCg
6NwID4cGRb4jVXdg0S9ur3ehWmC142K5BukkbWWBQDJM0hQa9DW+Lz+5PAb6JOfF
OGfbXzRTmuNBM8nePrigxOrtDe00K6qZlDvBjXOx5mvuCej/33WnfJFYPhxpZfv0
+605dm/Sy+I0QUpaKrViXZoR4Z01gm35NKgYCUmYPV9MspsF8ayZliOWkTnLbauU
WuDCTl8KNbMQ4WP5QOaxs65CV82AYMkpRBoCmsgjfFBy8fxSeqIKh1qghV3s+7xD
cpSxUc+22O//NMNTq6nwDeMwjQ8kOl5EhFWD0WT2QNXBPMTXrQV0jox5viI+ogom
O+SkE3I66B77OKtOwNP4CQ8dFD2hJpk/G1+ymGNyhMqYCN4hTa4aIl7LAB1Kpvjc
1ZSK4xijo2m4ua89V9eidgKio8RrikzEe6kwOydA21lnyHjCDPfZ3CYtDp0BYXgB
rl0MnZWCGMj/tMU4Pa6qvK7/m0szCpEYOy+nYEnfgiohsuf4lU2GeybUrFYOv51W
EF4X6nRatKz/Bz25Tzr1XYgYPbMyOm3gUPR0TH3llNur3EoQLq4n4br9ejUX/VfK
ZPEkWkug/Im8pnz82lv0aqJVqnyEeDY0ViIDbCnjVHhI9CVck8rstECjLcJSk9Tz
qS+8Tpi07ie6F91XARiaBwd8HopF4R1LmnKcEhEF7/7cJVKTaa0mZR5FRzIGn1oK
e0ANAN0LFP5w2HZqXbpmuRwKrpyfkIsHYjFRGO9xDMf7uPIqPzE1qL2yVIfpeDGp
rHvJbGzcTJ86r5qHA//257mArffHD24QWytBivPkFDJRWIIQh3Nu3tNwWif5kTar
Tgr66CPfwBa/hLeQWPGcFq0ylh3rhG8CYvxY5cyj4OSCp3Q7M3dxodS2XsWICKoU
GDo0E9uieJc7f80397DGp4E3BgP7s/Xk2ncWT7NlrpctYgFiMKCjEdSWbO08C8RG
8OYgBnMcY3p5xqk2u621JcCeus3uf3Kg6wUBPokja5XdlLbVQId+80MzEDyjhv3x
6c/F0az/Lrzq3/2dpn3vy0rU9WZ593WRnVZ70pcIWQqaJYCiOyZ7mkTkqyhg8P38
YUZuFtSGGk69n7QD3bdZBjbzMRnvevQuxXe6+WeXaT9uvEY/GKLestgpoI1aDS97
OfmxdOJafVJNjDzl2DJyKEpCdqCOsTabVfLaGu6C3NQTNjcHJNXJhTF8Bt9c6d1W
ISDESfmHtDnztMW+Y/y+juU/hFwK9wl3do1hOHQvqdUrskh+a7rZv4nUt9Badle6
oZtSzXmDM+5PVqU2LQ6RIrOeZ2SoIMBv4PnsykerAoUwRUH4z4gkQi0rU3r4wVta
6kDfo9HltNd5sl6Afy4SYE06+VsJ9fpr1Q4jKEHbNhankPgpvs0CQUMyUlA8HBn0
5eqmkIRGAihzdKJzUktiPgYAtg5sC+T1owxmLuzirbEzFQlUcgRLDzNG1UFeizdy
0sB5AgkCDEZm5g/ljKo0pPuGEZHCwXXAJTc4NlcTGZVms9el2uztFUgs2t+4e42t
811CsmDm2+2Dgs6TPzGkv4/9yNSKtoZWFE7OfotPsAtz0Lh4e3sDOAky3ZssjcHL
LdiKUVpTFGO7x+hQQewYMXLNushBVDHdxSYy1SYCRRh+K/yzgIkjZv+rtAIfL8tp
ZA4yVEMYXpsBNj4477QzhxlZrBhC3DQrjuqOGqKmewd5fsF87efpXwabHgdOwE0J
vqDodfstqnuEDGPpmGK8HsrEGBC/B4n5+VhHD7Ew5lOO0Js3xcux8DVjtNF8evet
AalNDVNZCxs+gntG0LZZ7dBYw20TDQ61cWVIKek9UHzFDeG5OzdffFcSm2kURDhv
ngqFrEkdOzaOHiIZarV74y3G3wZyzXobjp+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+wsAABBMbCAB2BYJndIWAAwsJBwmQ
cQL/7Tuc8S01FAAAAAAAHAAQc2FsdEBub3RhdGlvbnMub3BlbnBncGpzLm9yZ+Ul
WyqYGQo/YJguDbFrolcCFQgCFgACGQECmwMCHgkWIQQ0Ll2y3jRSFcsslE9xAv/t
O5zxLQUnCQIHAgAAiv81HEeRhisNla+h8zV+vQ9HbCb5/ukgpBG527xzg2ULCaTJ
s/DvNGl/cC+EhWQ8Bk1+dKSr9fwFBmxb3fkxTEYEx8RpBGd0hYAjsIfqoDHr3VUD
76sj9JP+04jzHeAhTXnoPF3N7Cs281UB+Awo6DCHkI8GuMzoPE4BOsuYu1RyWZL7
xZTGtTqua8iSHLRoqLppdL7u0M5IUafYaacURmnGARVgK6FvljpMVX33rAn3yzAV
2STMln8wxhRJ2Qol0Ss+m4L2hyt74h0a05D9M8Iyl2J+w8G54jmcaRxmNoBlOnes
M052o7TlwcZjwKJ2po1Uw8SNqoqAKUBnu5wA87MfJ699igCog2mT8De1W7VA5V4m
hWkk3IaGUG+Yahrox3Kx1Vgeeg3d9grjNZAHCMJEt8wFKmH+Ca8GNljDAEOGQrDs
FzZz0Lg7Gx/96Wuv2gNktLCgPHS+ZHn3J6pXe5klpWA8oFi9uLkj2JHyeqG7x1Kv
K3MQFb4RjJbBIE5GKkdQ0xLA+I6vwr5wBm4li27Xps81NwvwSmHlU0bvOCl4Bwdc
p7gqQ0t6JX0qs18jW8Du5l08FgTYBT3qHEwj9BezKqVCUqfXG7bR+DoN+CR4kxZx
Wa/EhXmvqhxJGllP2G+QQFSS2Zn6SFXf58OaMswI1jEPu4RjbEK698d8JiFuKXUA
sH1MfGdF5aXw5rUF4wYIBA9yUjsukD5dhGdPRxeD4hdCSiZjKTEFdDnSZwMTiSx8
AFE04w2jR8OKCiN+g8TtBzYq10TAARs29D0thFAuMr9dkYFbFAXdIFgCYl9w1Rpw
g6QwpWJl+lUTc6+QiXTq+qRjQq4zIHv3KBf3y8PM9VsWhISCqrbtRXlqQylRAREx
Sg0eqA8pIm1n0WdpWpRDNmNERsRDy8ksBpjEskLuOn2/syUrGz8IKipIgWx/KURs
UQDOdkWoa2gboXlf7CsD+oVemcK3YWPoa0G2WVHlLCDrNr/Yl86e120PeDDmbKKB
xY9xSwF/sZu5K3/mGYBwUmZdfGty1nOexsr0agYZSkEjBkRCWYJYqi+BswClWxr6
1kpYxL6aK5HyCMvoGAa8BbIyp4ZXKXFn61KoW8UtUzUcVcZ7cnD6KwQDCgvt8zkl
mbraF6fCZx18gSgKJ6EqDBc8xM91jItq5rAonI6OyZ1pAGHNp0ucMwD2h5INVcpG
5Svbcbgp8g4Nhb2YC6SbGsrMYg7r56vq4V+PAWToljJbRZZYg86SDMnN2B7vtGIZ
7EzerETOqs5FIXyENGku5MB/dswa+0qDZZJd4SvIAx4QZBMD0btXIFYOVZVGsKDf
l2aqQrz9dFzWGBWdukVEK1fupVeqNLSRGrunEUtuM0+duXgr+R9opk96lAIdyiar
BgglwnoE98KrWbg3VQoxpkWisiOEQZlnx6h84WUzoCDmtiNOSwGyOR0BekNxwAy3
aA3bgX1hUBk4pH1OlEK7M2w9EiVXu23Ka0dBrGJPoIgcBcbAQyC34CeptLxHfLJK
1jYkt8JlEM29EUpthHK5mm4ACbMi6hSaKY2zhDp2NGAXBGTW8DZDdHhWIZtfdgjC
9cExwJ1Y+Q5jOkhSAodehgXFEmkJJ8diLIEr8R7aoE/BRIGgsl/P9TOoSziAukuR
022b9VpaxFmAw5VKwR1p+LGSO5NNk8pHNDHO8Z1vq2ucB6XUJZP4+KPae2VsP3sz
XOt9s+Q8MgD8dFKGx/K6MnUo8d4SiSN6xwZrRTOI8isx7mKUottWlFnIp6AbcIcW
v2muZAinRVJ+QOF+0tPZ+UlFXff0TOQboC0lStCNTWQH9VssBXnVyzpmkelDStd3
cXl7xiULVi0u5cKqBBgbCABgBYJndIWACZBxAv/tO5zxLTUUAAAAAAAcABBzYWx0
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-----

xiYEZ3SFgBuhDibMGc69QTyzKYr3R7MMaQOZuU0Bwg82JVcL+NGHs80uUFFDIHVz
ZXIgKFRlc3QgS2V5KSA8cHFjLXRlc3Qta2V5QGV4YW1wbGUuY29tPsLAAAQTGwgA
dgWCZ3SFgAMLCQcJkHEC/+07nPEtNRQAAAAABwAEHNhbHRAbm90YXRpb25zLm9w
ZW5wZ3Bqcy5vcmflJVsqmBkKP2CYLg2xa6JXAhUIAhYAAhkBApsDAh4JFiEENC5d
st40UhXLLJRPcQL/7Tuc8S0FJwkCBwIAAIr/NRxHkYYrDZWvofM1fr0PR2wm+f7p
IKQRudu8c4NlCwmkybPw7zRpf3AvhIVkPAZNfnSkq/X8BQZsW935MUxGBM7EBgRn
dIWAI7CH6qAx691VA++rI/ST/tOI8x3gIU156DxdzewrNvNVAfgMKOgwh5CPBrjM
6DxOATrLmLtUclmS+8WUxrU6rmvIkhy0aKi6aXS+7tDOSFGn2GmnFEZpxgEVYCuh
b5Y6TFV996wJ98swFdkkzJZ/MMYUSdkKJdErPpuC9ocre+IdGtOQ/TPCMpdifsPB
ueI5nGkcZjaAZTp3rDNOdqO05cHGY8CidqaNVMPEjaqKgClAZ7ucAPOzHyevfYoA
qINpk/A3tVu1QOVeJoVpJNyGhlBvmGoa6MdysdVYHnoN3fYK4zWQBwjCRLfMBSph
/gmvBjZYwwBDhkKw7Bc2c9C4Oxsf/elrr9oDZLSwoDx0vmR59yeqV3uZJaVgPKBY
vbi5I9iR8nqhu8dSrytzEBW+EYyWwSBORipHUNMSwPiOr8K+cAZuJYtu16bPNTcL
8Eph5VNG7zgpeAcHXKe4KkNLeiV9KrNfI1vA7uZdPBYE2AU96hxMI/QXsyqlQlKn
1xu20fg6DfgkeJMWcVmvxIV5r6ocSRpZT9hvkEBUktmZ+khV3+fDmjLMCNYxD7uE
Y2xCuvfHfCYhbil1ALB9THxnReWl8Oa1BeMGCAQPclI7LpA+XYRnT0cXg+IXQkom
YykxBXQ50mcDE4ksfABRNOMNo0fDigojfoPE7Qc2KtdEwAEbNvQ9LYRQLjK/XZGB
WxQF3SBYAmJfcNUacIOkMKViZfpVE3OvkIl06vqkY0KuMyB79ygX98vDzPVbFoSE
gqq27UV5akMpUQERMUoNHqgPKSJtZ9FnaVqUQzZjREbEQ8vJLAaYxLJC7jp9v7Ml
Kxs/CCoqSIFsfylEbFEAznZFqGtoG6F5X+wrA/qFXpnCt2Fj6GtBtllR5Swg6za/
2JfOntdtD3gw5myigcWPcUsBf7GbuSt/5hmAcFJmXXxrctZznsbK9GoGGUpBIwZE
QlmCWKovgbMApVsa+tZKWMS+miuR8gjL6BgGvAWyMqeGVylxZ+tSqFvFLVM1HFXG
e3Jw+isEAwoL7fM5JZm62henwmcdfIEoCiehKgwXPMTPdYyLauawKJyOjsmdaQBh
zadLnDMA9oeSDVXKRuUr23G4KfIODYW9mAukmxrKzGIO6+er6uFfjwFk6JYyW0WW
WIPOkgzJzdge77RiGexM3qxEzqrORSF8hDRpLuTAf3bMGvtKg2WSXeEryAMeEGQT
A9G7VyBWDlWVRrCg35dmqkK8/XRc1hgVnbpFRCtX7qVXqjS0kRq7pxFLbjNPnbl4
K/kfaKZPepQCHcomqwYIJcJ6BPfCq1m4N1UKMaZForIjhEGZZ8eofOFlM6Ag5rYj
TksBsjkdAXpDccAMt2gN24F9YVAZOKR9TpRCuzNsPRIlV7ttymtHQaxiT6CIHAXG
wEMgt+AnqbS8R3yyStY2JLfCZRDNvRFKbYRyuZpuAAmzIuoUmimNs4Q6djRgFwRk
1vA2Q3R4ViGbX3YIwvXBMcCdWPkOYzpIUgKHXoYFxRJpCSfHYiyBK/Ee2qBPwUSB
oLJfz/UzqEs4gLpLkdNtm/VaWsRZgMOVSsEdafixkjuTTZPKRzQxzvGdb6trnAel
1CWT+Pij2ntlbD97M1zrfbPkPDLCqgQYGwgAYAWCZ3SFgAmQcQL/7Tuc8S01FAAA
AAAAHAAQc2FsdEBub3RhdGlvbnMub3BlbnBncGpzLm9yZ4FVp+bTKsczX/GgKZeN
+FACmwwWIQQ0Ll2y3jRSFcsslE9xAv/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-----

wcPUA6T5X5he1hpRI8oKxrVQiCkB27ePKVHeA4pTYMKZA6u1l8syrP2+sEULDgvB
GmH6+0mTw07VEh6J1i1+3ymnnTqLhkv3YqdBtiC81+PL05YPCymPZaWf0ajq+4sM
dnBfLJ3BPrsJw03sVHIBh+L3qolG0CliIzGKxIPz9F5RBSvDdSIwCNg9hnfZjpMu
kcmceYISpWjJR+LeAieyYOTZ+Qhx71jYQ2svfpwW+XAw03uMpZkvqkOJmYr8uUca
i8x2j4G6EUXuu9NswSPPirCqU6OZVdpoHUZusFyRZz89V10fQr9hrnJOGw0VtPGz
SMEulSosvnvnK2BQ2ccJVNn0s/mk+fttQLpBBsKCH0UK8norIXt5ahxdj9sSwBTf
q6cPlHz1o9OnFSuewFkapA4PuLxhf4YY8ZTsC9LUZLiMf8MrMza7gbtnEbBzW3bx
y6QD6I+PneJl/8M5a7ECrlFuR2p3Kyt6MTiY+6sxJ1GOVhpNS24iO/LRxAUe8DRi
tFC46oEQFByp98SIWt3JoJKHcjQzLKTjRWfYhZDiUnBkoM6nYaAZdItcFsBDG3IV
1UstcmfcCugJyWi8V8XHVKdhWe3bWc1WrhieDCVpfSBD2NnRMGG+g90WtHcwhntf
n/mwyR/GLG+gRc16I5hPm84lS34+/txx745yDXdTx/szZAqQw0VW47CwF17A3wdw
cX1UDnUnf7/llFKqg8Zn/GXGIEreo5q/83Ib7dehm50APhtaKnQzoPbPPu21lw+8
/3gisYxQbmrphEpU2KWWWrG5g8P3JG/D9wlHwDhhXPCdNFB7wthQbaDQ1WnN3WlV
BEtWMOqLTIovjrxHbn5judqLYQQgZPbMguzj5JXrQM7wVu4o0edv967oI6ZRBg4y
BtwlXWF3cgMvvAFfH8fXGXAtJw5Gz4/gxzan1q1JcOm6Akgp55J37LlPeXIKHiyX
W/J8qEbk0XgSSa5VduPfnP7AzrLWtyT5B9lqPszmR7euLXvb+tCuNa/G/ldceJO8
6MKJVXYuYnk2qpuNWV1NPlCUH583LH2xgJ1YNk6U7ID4opcBMJuVM+MTA7cmLObE
Fdoa2TvJu5rpyrnqedHPNgE98P95kZJ/UtaIqJL+zzGkD5rip70DJPuQ6CkVwX1o
pTx2EKwi3c8H5QZtZUkLYeh8x/1LidZeLBdMLut1Lc7BmD0j0wU0PrwaSLsWAYmW
L16/cY9xPwIqmC8nST8rH94QoBl5eFkm3HrDYjJZrNybk0RKP5oLKG8QoUO2kXyW
9TfKNplK0YCfGTgKcTK6luDSM2cCdwlPdspwCRLPX7L7LZYaK8nEfAFD6Al8ZC45
meBQgY4SuDlucygbFAHitrXLv4ukBDNRFxe+2dVzig5ryHZj97H5vp89aYH1W3gh
GS/k57744ziY/ACTz8cRxVKgM1oTYjDsNKvmM2J6ij7vRxuMBvM/kO7g+0jD2hPV
eWyIS1VKeT1LG7sRBd+GVQ9jHKpP/7YonXYUrOkpCdG/5YOX6Doo3VlVTRi00QmC
t8716eEJLd7ivorFYFELY5eOEUcjmNLSwEgBr2kPm1Mkn8RS8mCNT188nXgTzZk7
jZ1rurNkkqQM53xMaLmQImS+N20GPoa2RdHW+R/veP7LugLO7gozMi/zz9+kcd0Y
wPahWnYsZ4uHg/zbgFMIH/iwQ04nv58gOLJfJafGarwotFvBIfl4Nd607lmVJTc0
OjVhhisWL5WDIC82+DDu0yDLH/huzY4W7/ks3Hn/UpEwzq+A1/bY3MbQomew5hTI
99z/IeulfiT8/0POofN3lvMvTzeGuMMsBiMFp2nbCEHrwWCN9uaE3eAbj3E0OtAM
AIIfxypiV+bYm0IA58t7Ur3kMG1KZmcKG4DF5zrL1u5ArX/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 `16a22adbeced91ada60b5561611748edd2fedc51e0770f86d7394870062e7322`.

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//pPlfmF7WGlEjlejDztYnd2xigU3Okc86MsGI+wTe
RO1LNVy4L03KG04LC5S7Ahh1ADVuNqplgbBCjHeiWsMeBIXfwUYH35+X0TB6P++e
pA/flGSeFj2F/ubBL3Xo5r7OGeOD55hijwNjwKj9tEhTkIOa0LFaNwJblCsTTW/Y
3rRQB1SzvyPk9Qf/iyN5t17/89j/piKJXulgLXnLUONBYeqA+gSV/0FhsYHambvL
ucx5AE6GUJzsFxdjCwVR7/7zdCU6jsfvPSeZry+7CSuTAFYqrh3x8+62Kio0vcoH
irJrIRQsQOo6ygvmLJS5vQUF7lwNimpXzTjWjqQBuAdwSuYPFVDPd4xIOgmT/oJt
MCA8UOKxdoANh+XnjqZAsL5EjTPf3UmGLhbNj46XssvtUSuW4qvgFVoR0FNOEBrt
9Tyt7fDzdZkD+RkyLK13igSLXVzB4Ofn9E6ddurICZkfNtQofV/t+qJUmc0qQKs
cFrwFO3xt4UrgLFH8SnWJ9Rt6tLaahUD2pY/YNkSSC1+HFPbFSsXTcnfOt5vfEQg
UVmP5TRVX36qE5EqRt4zZwBzv+Ph0lMWQueKXscHGz6+cFR76nktsiOFTlwYtudf
fCrvf+hxuGn0mKk3qlTkmF5vOt+NNiqXt+nzJ7bqdkH3kAQ2qG9UHi0Ey1X7ykI4
MKqjNXp3ovwx20hUYrPMRo/XXz7s8ZiqX5q544kpjwxU0n9mvWYEjr3hePtAK4YD
6WRtqukyuxSPvonhdyq+x/awcg2AQe5tPH+eMTt/cm1yBdzgvbNxUcy5+87TQJhJ
Ia425biPs4kZku1NP2pN/kVeT8Me56zhdaJF2OwcUGOSjbkgo/F4WyE5bYK7gM5G
/40hnmYIGWitGLoQmN3jyEIceSJsLazJ503iO8ZSRjNwMN6SCOTFn0PMaJAHwa15
jshrrUHJpZri/4Lv8cX1/A5OMULSyKNX3PVk6aZPtzXDOm1MCC0M1vIboFvD1qEx
feSnmaN+xVXjVsA76C0cqQ85XLM8KIqzJXLQnG+4ebsa1OrYreo/1FFlRouY42uS
VY+IZqi3Z2iQou9DKdYGWQAGjB1rdeWe/J6R9BK5n9E5KZ2z9HlJngW3FXX7yxxm
ZogvoGgEwnKuxfjl38sgtQh8bhXOXS9roNm8uDwuk1zwd9SOx6vcL9h6TBaLPw3g
mwYrawlUONtMBjbU2KGmKqx94V0yMIK1FEA9LLB4akWO4Gnh/qUQbq6Tptb6zZQL
w3GQv4VzOEwSg84Vz7dQWw3hg4/vRSL+TQ1KH5hS2CuCcpVjJvC9hpatnd4DRsVi
/bLy1BRO2VJXFyHERR+gVvN7xo+bAnhC6aasDHH+hqyNagwQBS1upcCr7p+s672W
7GS7IVAiLvXcsxS3A5xpkmcMb/+2BY34HKw2MsakDJlwY7zYcqeHTqkseHNrarj3
AhJ5u1RYFJJWTxn3J8F55qP7QtIje2ykrm06wwwV1Yfd7DTzIKELZT9Qjyhf9nEQ
enlNwJgVGPNS87iYII1jS7fP8K6YyfknyDKNzDjPCJEKL7g40sBjAgkCDJ38fP5P
GQmlf6F96zl/4ACgraWthTKdhMHXMxRVYxO3vgFpnQwEMxje1zZBkaN355PqAYU5
1NuIJCocAghd1k5ygIWF9XGsACGfgvmxCSMV+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 `a3e2e14b6a493ff930fb27321f125e9a6880338be9fb7da3ae065ea65793242f`.

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
P4utzW/wG5YxqMbcNOz6yrY0326BUmeMgybJ/PTufig4+F6dBT1/yFZD9OdQXKqu
5Ne3K9clQa4d7cNc71C4XRZYGC4vKMR1gNas2WoROYJh4eaKeppdOaQNgMPZloRt
YotoQqt4YGESq2MQo+GWyI1EpcRU4euYInRudx0j6LTLu5DowqHBnSLIQQ4sqzXb
FxFpSD5eqtevtimpUJCCGJkvTz7ZeRy7zpc4d0ZvZV0Hq0Y15aGxm2DgUiHdBRuw
UzNgBwrH9Ez39zmDGyY546QzVbHzBETlC7quf1eXSZQ1ELEPfLX286CBbNjfA0Jc
ZwUU99Yv2ce5weezcTAd/TenAnN43iQfyfvknc6rZ18WlugzTm+hrmjvI1ipJAs9
5Jb0ZoH/d35+510d+LtfK7YBZO6C2U/TvMl6b7RMp/1MuMGgufAnKpXO41B84YOd
uebwxlcjb4auSr521SEz7j7Lj+vxlt17Jbl4HFLFHknbHXcQCy6if7NAKPIcQEo7
F/AbelMCGdWs1t205jiCaqEAfseo+vbDvNfpGtrg+vu9qSVPka630+iApN1RqhbL
ml6QpicpfKqbTfjO64M4n93uMaj9Q0/qhUpM/btWuofA/OnGTNHJfJhjt3AyYPNe
KfUMyd4RG+TlzEAvjnDnOo1TiRthYjHPsajQU6IpC5FhTISLFmp/mfyx0khUnGav
agz1l9OYJeF/sDT6wrRuI2Pp5CIhrcw99VZLzb7DCb+H3e2urCejMXn3bO2F225Y
Gqp3uZEuqas4Hp/GylygKFEVMvTzGRi4zJp/dUGs09P2JKhbuhxu+BYxBNUrdWNK
2fU+5+eD+rG8R1ZMwNg/j0VUTt8YyWjkuNaqoPRnR0IzVdTHQzDIjofruJ03lu4B
BHUj14EFJC3fyv/YkgUkYNsqEMjUyU51u4AijMRahTgPDSJ3NTg2Y08fivA67SjI
mEjYdwmp8zwS5a4ZyJa5qLVi1tFwPAUj2ojE6orS9CqzAaUktLNI3duhThTwlDNv
bCZDnfXObEOnyhiqyqspVKFKtoL4Q5ulFNUOzSYWt4ReDZEdsGkZ5UvOCOItIEwh
94pj6BDl5LLRJH3EUXKsK8jUtKrksk9RtY+3HGjI02x83ldVCxx/ur9sNZhmewZG
loxqIaSvZsQkNFzOACn0mJ5pv5p4SzByua0E1yc10SeMVJfRLJhMRhyeJBiHO5QC
ofZ9DJOWRbKbyoM2BHLXMzAAhnGTw4LDe54/6E49Unoc5C11K6yIuKJ33ETGq22k
uSyK8z4gmxO57B/owmR56BmEAJpsWkHVgom0azpSZNjSR5d9vPjWnSdozI6F1O5H
Gllkt2JtkUK7JFrU1KQBq+l1KaSb20U0BIGn9bTGsfxQJtXpBxE/3RKwu4+eYxFA
xC50fWo3p+ZLKuo8ecpJH+bX/YvqvcudFu5tWsZzGOSYm4rSiL5C6vhyJIkReiun
64sQ6NdpOYnYrfaJ0h6eQfhCdfcK/hRzErGOSYq3iy3KKrlaXac1yRb5l2uPTMwQ
ZQwVCNPtWHBlmK5yFr50A5Yw0yhqA2kxhbG4VOSa5TslTnXzI0Ug501Mi+zB4CXL
+mFt4nXBR2XrlOS5A9cp5w39KsHzL+LGVvULoF33gEn8CEmuImHRbTDub0rpKnW4
p40p0vvpf1/AnB2oHWk4+xrCvPBmgY2JZbWKmZ08SBTylyxWw31tIWq19tk7cj99
v55AKA2dY5l6KWyd3Pu9Y9DcAFo+C/f7ZuciusmFiK+5HRjTB9WXyTEa0PbBBw0U
MXRvk7ot3ETZnTOHtFmW0UrLkJ+HOu3M83sHBog7g9mfVPQjG114QWEMg5Nm1K4n
cQf1wrliyIPODpMWHxQkU+jW1NDWLnQZBBl2m/1zVSdvkVqFTgoXjvkstxQ4mJM3
Lr+S9XLVJV6sTuEfVpUSUJNP6hTkn/FAFRAu/hYUIp046rNzqgL21aPePrqP6Ix+
ZccsC9QdtfTPocnM1HVesFsAZ/VAJpmATEtJ0qvRNUlBBceF/akAN2cbJ+ldS/ZT
3HnxZ9tJ/FXhh2dhYj4Lpp/pw/tKpVYeDzxXsqZAuJQZ1SL3HSkiJOxEAMjRb3rW
ShEtPZh3SvApGV4xkmxIJ4bXEH3VTLzixFMbg0SxzxIjKGQyCM9+N+av+vILFNML
3vJeWRT9rdctDKwtA6BEsOK38Rv/fjzDiOr9hfkARKA73CNRMZU0eIohXPCkW0mr
zccAFm7SEa4Jl054RrTwvsaeT6/OPMv9vlPOjmPhqKOZ98hWFf02hpVIc2MxfMLM
zAYfHgwAAABABYJndIWAAwsJBwMVDAgCFgACmwMCHgkioQaj4uFLakk/+TD7JzIf
El6aaIAzi+n7faOuBl6mV5MkLwUnCQIHAgAAAACvIBDHHXG+SBbic8C9XUwN3cF1
aF5btpBMAfY3tx4gshT0QrObyCYIr6nf2DdYtJS0CS49Vzqdv5Rje8xAKCmiHoJy
+sRlqVNJC0TvR6R7fLHoA8U4rxa/m+leKOASKJdTrdU9FYcI1/WYhfqESHAbPcbp
+lO+YPB0OwNAtxZFSbzwDjXXNwngHfhUjEzzncaq6XY72o8fC+cV8jhd2PKXuUdx
```

```
OSdV9hEODv65alhsYBME2Z+ga48XBzb4upr2u12yg3AUEZIT8+A0BrG4shllzM2B
TYT4sSdY0Ieuv+cpwrqXbMAAYmlzKjFMUplRUIe4jLoR4Ef2lmS51l7e7Q3sjy41
fJrHDE/tP/Wm5+1pj9oRGJaq3k/LF1LYEUfN2BTAmmdv3lVLPJeSui2fSBPeOHmB
QLf4DzDuj2BuEIAAcXIU6bX4y4vU0fcJya9nGhw6m7ISPvXuu5KpbN9rjgr1KgB+
LjtyDL+FdUMj8jIN4dcCJmkwZ5ASdSQsLE8kzlke1z8drAxC35nKizQf5bVodg6R
yeqwRA0aQJTqsHqdXFIOoc6QdrG9o9Rb+TWCeCAU6gXYnqbGHI/c/I4YeVRjrJ4S
TCGHW9s7iw8P6JlzIzoW7Lba/D4qMPqQDFhKIw6MKZ5k4VsGHeOD5eBmbJVTMcYJ
2UbEsj5lNbVaP9PC81S4qT+sbzJVNaJYiuYnlCFzy4RKQdgypLJ9Luu2OpT9zLMZ
YKLkwuoZ5ofTQs5DqUG95BJJqZECB2unnjNba4YZZ0/NmWJfzDuwqlq1Kmr4Hr3f
NvCF++kfzGdWYPqzY+wT3sfCW7k6Xq+rxUisdMZ10fYdOpRZrVKhHjhmLl98skEx
Jw3pmItRU3p6eXo9NUV90TpBjgsteZaWvKbdH1jPVcRbBL5rKSA3x4mVteoy/L0g
Vw9z8fUi7ZAVI//Q+xNsTsRdl1zypWKORGxGM3jnTOnvdJaRxjhtqKQBOLDQyLqU
koxQS5uINGto8JmOlnFwI8K0Czl+wQjUazoFbkrruLJksWobJOvrdUU1BuNBhlVi
eEHk6RgBoa92XMTNlAb3tNw2mwhRCD8bYuQpZTzRM3Hk9iiGUbo1xIsUL5RW9vLq
60V9K781C83zUys7NYVCd1BFMEBOIVk5sKp8O33dkAjrOx9YUv4OuQbV5cDLfCua
c/3NxmNKllLEAt6H3y8aeHvnzw+yc8m7cz2d1TJa+vwatwhs6z3ygwxD9YXAnpvK
0Z6FBLE772+PWu//e1jjPq5rB5UIoN9Ow4Ppai7w9ggLKg6BUTXv7r64IcIkH5er
hUGcOq/N5eKZ6wxjmLWKFsPW77zEKp9fJNDbO+Mjhla+M65YtDZ/k0CED2lpock6
YbABTHfnv68+s2FjF8x5wXeJiehZMmx30ZFJ4L4z5vv9iMY7cf27KyMeoTf/1Unp
I/MbmoLj4vr6v3mICHmDiLBY21g2hw1zlfjQ0sqy3LRehUruux0tYz50UW9DIQn8
yw8lPtcaW1bVLkoLKkmBE663dhvN2/OXv4L88hE1bpFfxL7uuODF2gqUsIMokZym
tNgJSem65HTgAy+GQgIxEyxmZZvAftd2/Y+BxGdnJk4xzvu4YQW/YngSRlpt0GrJ
c+SbUDHx8+/IyRl8QdoNfmdLYTS/0kHkA3FdQwLjg5x4VAYxo6xjKKNvU1qDNLem
44fgD+FCzyyH6wKK4tSOUikl9KAYOyN6CHnZQ5ybK6F7BPNRu/5QvbHlnEjc23TR
hxsGu/B7G8AifdxHsrKc/nzXllEoR+mFdBn7kcqYpz1L/ge+D+lpytTQhZnmFpKm
nCGqYXKDerWQWUNezaHT/G8YvW8izgfPV2J84W/YIh5jXl6UhQMc5Ne1BohwBm0D
avaCJIrM4136IcS5a5UvyghMQiJ2CueaGgbMihDkerjESsnPPYes2aT9ZT/4l8wb
aTu+mgdYDv0XYSgV7S0pCXfqU4+C/BIUEovvnt04XzctmxWPsNs4ZnAA/7EeeMH2
IlhqNxCLX0ARxlnd3tIQBEHeleQdiAAFH5gFPztjYAU4EiWTSUHzNIHpwizFAcaM
00v/4TBHPiIrRQ6yyQyu96WmgUDGYOdOKFWGnLUlUxPSvReq+blBd140ctTODyg8
1FOM6QcJKnmJWuHSvf0CPbfJVRxJ6p2iZFY80fDQDEB/rSIHzsuPhxuom74qmsbn
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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


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

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5XAEbrRX33P7LOuNSR2spH6e58jMrJ3kVHPLF1U0JRsATgoTqV1oFR3S5qC7I8yx
7YmHLpJR2iS14nVkXxR6f3tuC0XPSQLtnUxLkRIEapWoHLAKOJd8+GCB4AyShp/a
IA/IJPpiinqxDtHmj+eNDGxcHxYEgOyitJHz37WQBU4juiueRcCNnEH2BW7dqd91
mPfFf/sGVrWgPwSQlhYl0tuOlFNlo3dLHnJG/d7/MxD617aiS9pcwWF9hSDHNvdm
9ZyW2WcdNP+ccGv+xpul3FIZ2s1T1MSGcdQ+LmHcX/BBfkY8eqKU7o2FURiNXgtq
Rfc1b8naACMxOTpba5e60dwhfJvgLURSmLrpGSAkV2JopLrNFBhMf52jpgAAAAAA
AAAAAAAAAAAABA8TGSIp
-----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 `a4904982f7caa9c9de690afd772d8bfe027a1ad6a5bbda00db68963fe303ae8e`.

The hex-encoded session key is `adee68618b302d4bfd7ae3d432bc63a1c1ad7f5fd6e7fd7bdedbb0d0b14a5c9a`.


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

wcPtBiEGfa6PvOIwImBxZ69yoALndODKN5oteuByOE4ej94yZeQju8Doo+46V6wC
1g9iG7uEMNW9OM7k+TyEPdiJrTLpVgAYIWaBpyy8azzYN5VD5qRjy3D6TzIr/a7T
ZDwu87J0Az81FuTH4PzSTYRreQQRgfAeucSicrAWwjgWkBAhn9j1bUZm3lIiQUsp
daf25KUsjRjz+zBwZGDpecd7xgofTl85MthQCkxYbrbY8vPQulz4CtjNK15qKEdA
7tEq2sGPHqQhMnRRcwq3+OwE7+SX9/rxhO2Du5ALWa0EfrPQf/fVXlRbaEmGb9XV
tDCbTW4ni2dFdMoH5MPD55W4j/wQmtnNbWEsepUy44Cq7nzPBNDGDPuJeTsq6djg
rbu7XHHfXkpJKF5P3xdE0U+iTDHO4hy0BoJL/UVPjdLgAGgOT9dbPVK9aTT1Y+1p
```

```
s67mTzSKLPdRee/L7DP9yL9vffKzxOZ0PTUyKIMO6GOhKshZDR1gHgs338nCWRTf
ifHxkETVJ++pjpPOCVPuvnQ7PWHedBnKKcUwtJzspCkUwnNzwRnW56x/Ex9plEpa
3/RfqayZdHpw+SjAKiP0OIMrs+cbxs1SLey3zpv2ewcT5n4uorZmJ695PL80NONG
hsB5BWQDXczfIaZU4uFeGWQMtZQUM75UplGqt1iNw6W5jpmrg/2fT4tgKpT3re67
n+WPm+tfHPLM6PDWRxY7ObrkXebjMoGoKj0Q1kywO5M3Pf/hf+B5w9JLLP/27yCJ
teFeEV7aOfb4syoC3grq0BI315uh2lHg99WvdUbulYgAISb5GhSS2VfznM+mQxRl
Jtc6u7tU5O4L3tPJwFVScSrbK4NVGsnHDvgq4isbAEw4a8qar57Fbmwy9JMAVCIv
wf8VhWJHnyYxZBmaYqag/jjHjeThYpDeiZ1+8SBvo0PmXyUj0dOcicpREfEvG3rR
wm78gyWUvTJuZTeMXmvKOqfUm5HAhsxjh6WqeDgXSMkMAVywjIqO3xIgzNPXvHvM
E979b1XYjAMEyJE6qN5ngO35nzeKPmM+q9GJnrdvM7oMcBwEeTT1sLKfiVUYCWXI
p4SRZ90bip8jyJnY393QbcqvlH6VUWK4dNLNwMqHEyF78eGzNig7qIa4WkHJsnCy
leDBRhoy9bFH3Mhf0ZY4ncV1dFlUGTFcQ1hZASAJNDLTE7lTOVRKV+DP2djtnKQQ
br859WQ7q41n9b8loBd7XI0WfEdXS0SsV9BDIRu+avBSgOAvIl1OiRk1NriqJVd/
06SKT77I/laf2UEU9QZvML4A9k7kWH2BWq2+d3qsBNmyOWhHL/UlMKDTscoBWyuO
hUbdBX1sfMHZSN7RiGGLtrouOxtp1YXHzw/JbsLyQcXXBXlC+6TyYYo5mroaDzl0
qaPJY158CyymyE/Bqz4hEGTyWpAmfVl8v+fRjBwnuvQdsMIsukljXx16SaMQ0h3N
dnFJa4JUlKV1cCljtwOQ5By7yHmpyTtXlGOKg4cO/GtDICV73fjxWeHYERZi61DL
KfSzvzfS9igP1F+AARSku3g8R1Jhz6ATnKTvB23B7+gfCSHS5OCUNZxSQpsSmR9K
0usCCQIM22GDOpQxFnnhYpvW53zWdK7SIcFsRXUu0bGgJCJfdsJ23przdrmAWXaB
vQyYZ25yB9cSclthr3jtWLJXDh0gVbIRBq+OskdaZ5zpoCYxzHimdZL9aEokm1b2
rvSh4sstl6T/k4m86/2XQ/wqJPgWZqbWvfqX/fSuf0XU7iSz9Z1OUWHesb0F1azc
mxgm/SDoAVNbP34CQSdex9cFDCqFCdb5pNjW2dK7MVslyiPpplOQvxKI7oujOB4V
zDCfYGMrQf7XGMx6uQoT+vlD26pv+qYLnA3wwxMsO0G2WV0qR8PjTzSe3cV35Ri2
m289N9iawUjWXo8TJD8kQqAJE9UlFKGTasdmAjrTlqFWL7vSQ9eu4VEW5D8TCX5r
/EwNdknTrtVkzc3uCsZ+c0PbSMXpKm/SoJlECnzDFFeajmW/OidX8+YajQhH6Wcv
HFlwL3jtGww0iTZq9zAMGay33d7/3/B6ZoOkFJh8Bh/DfY296d9kNjXVVie4h7Ds
LZI6Qm3IRUp6RnlJlGSKw6rY+LhDsxyy0v/MlQdp6CyzCu8hCFplEYbSDvGcheGK
y8SLEtIyT24YWrx2GCjhxdNS4Emj0BCk7U83isM83KqA1+/Jj9q+/6OncR/Za7M2
sCQUxlBoAxdoBWVXg6rrQsuorKp3U+luXNpSvByoit+JO3baDLidKDBNKw9y8JVR
aQbQgi1GzAw5Uii9zsZDC5Lq1Yr5sL0/fuXIggy/stvRjTPkY100sYYS5ROBrWso
g+OOPFdFaCPRexaZ44wprtui0lNZp0rUrviYoUsYbYfH7L8J7ZpClRlqLTJM6lkT
bIaokgwDETZKXnlPYz5K2dXwKs2aQg19GkKVEV1VP4NQqV1Jo2VHwExckbYHeRSP
eUDQqtZHVneSa55oI4ZHtV43y5kRi2FVXGE1gYC5Jjf2FfQ7e9raPnWrKLCplcGF
8ufK9muVnoFdWn1cXRqJHtWGFX8JiKH4vTfu11k1559pNmHN8tsvy9bVA5slG0mG
L/SwEODq0riDnI26oKrLXr5V+z6cyOQvB0pPzuhWmRB8Fgm+kl92hC7SCFVhoIAx
WfjkBNjYTzmDh7wy//D2MHT7pjXDrhl26fDPCE/FkMgpyvX1eRkKAeYZKNbNI2dU
f675UvzuHCOKCMSH72Ssqq8BP4RoUstw6Jw5HIbJB2+agYL03FAxX+1IQ96Zx9+S
LgW4+E00sXkwiIbrzskBTjnm6sG6nQU1cu2nEdoIXfkFghGPP/zCloN00SJkWS2M
d8iKtPIu3u1SnakTPZnReq7jm+YEIttbOOoTuqrTzzjh5At8HVkUjObI4LUZDMls
sqp8Nh96Wp/pixU7qb0DRw3+hEqXlY1I3rtRu7oCDGduy3P1ctPmVKB9iiz4O7JP
NTRCpmOa14I4dT3857HyvoVka2yf9AOwBYztZmYMjX48fAzPK1dX7HoAPT9RhuRb
+JjN2XAb2hFf89RBxZmfWGHr+xypcL2nl7hj9BwZm5RUk5nztumDdRf7AL5PsXTw
pDcb6zJ4D4mjwnc3RdM2SH/TKtbNF3UW7KQj+5FAKCqjQC5fhT8eNYu/QTXeSHVx
gHreOO+mq5Scx050wl4ejxlRg77VZGYLnZZLLkBr9POvYxK/1BzEEfxMF23U2kTE
uyxYUdKlR0BMJd3TNKMj2afY5J3lE4n8yhXGdCcGCyvhA0GNpWXkVTXkUEr0IXay
94gB2aUFQVoyrvivYdj8lZSeLKR3OK2MZ7cKkpvzC5WoguTZGELr6wKwHfEcXK7u
t/9dCmd3/5x8ceGvGsLor+HrMwPCLxUVlMnCO+p7rCc/HWjAcMJJz2jHHIyl7Cos
XD75eDpHCP6ReSzEOl7Z1nx4ehp2ktIhiCCUuA5FfnyzWApmcN7pIFKQ5SKW+h9F
p3XypzX7y1vOXrmaL8ejcanMTlpDdYP8GJBjCT3Ap1nmISTsdkFkeyvH+94MGcK3
j5W6rHgrfw41z3fXNbvQFnmASd/UGHKUGCGdMb9pvK6pt6vcAZnmBfG/Rx9Dnol3
Z+nrc9G65afkMLutayADe2jM/xNzRs6LtaONDFIYNELIUrtALOygpAlEUpoRH/Jk
x+V5AY3D59HBnVtzQgRlKia7Uspw8E+t7k2ouds+FS9+nWK64pzExiWgdtfQZYpi
co3St0EjgUbwJz1gektLxKpDrRTe4LyKhcBl0GWvZfBL75GryVxbYZU0HDB2/N3T
GY5cxTkQA7bhh00WRyuAX1yqRzmAgnQOadKbBdsPAkFjleHTtWu7BKX4PA/9b1y7
1+qrpQUeE0YUB8Y87wE8THDFBDg6dhBEUp5Q9qMlwIGwAV5u0qtKnq23faxz5gKt
shw7fjYnrnBVQel9shkOIPBasf+IBrgRZisasV/t+LgmsooKHjVjbPQNVUsrXuKQ
FyTBnEG6VzmfH3VGKKoNtVpxE7wXXLK8lynEGroYBRxbnqkmmXeDNS3y1uk/NLob
m8hptTUrukN2UufDO7dS5p25sj9e3idrqnayppff+Fz9ReT4jtWqTGA7ZJShrrH1
```

```
5+FlL8chxsDWIv3MqsD6C7gtFK63PPX+7tc50PwBoZp6PBa9k6z6SLE9NwYP34H6
trNuDLt4qgJkacGXhtEwyy/CwJwNjXMdOTwGOphZkl4eYAU6ALwItVPWW8jwwWiV
mqdyVIFrmhd4877++QP3cW1qkt/upzD+L/mAMI2HJvPS9sVn1PG391w3MLryQqJJ
MZMnEhAeHnS1rMcrfPLupHCDC2GW32WbVKU+yA859eCv337dntuidHgFShfbvv5S
VrJowQ38DwuEqfBHG98iheJ1CzbGVCmfyglkE8D3meR6nFPDxemrxKr7XEl0HCTu
wpwNTKbMZPeItxFVxDgB2eCs6Jvt5lI8N7JNE5rhDCyfL/1MuTHZQFOSoj2wEjAK
Fm1MOjlCzkxqp9QcBSbPFxTKfWgfDnk5cvPHTBIvbfHJcpTA1+YbALeFRpglJOEC
p0fIaAevFE0iihnOoHbAY+q4IWGt/ywLwP3LmPXpI0rXgM82n/xeUOr4h4Ly9fZq
kKdphSR+aUXprfbmvtK9yoSqdiyY1sTTmsrCMfAkDrQsG/OrIi7J9y6dIwhfOLqq
O+SEuva7S9XuQwIbF7LzhoiSi/NmbhYc5gutPhqwEHFLEv0+fy/D0dSna2JVJmG9
2s8PdHU0oDQV78RSTrLDjkowCD/6VYICBJNHwVN/uV1AOAF2Rk15e2YUW8MMbEt4
GdHqWPrqNq9try0mYy7LiRRrnji5S8gz8McTr3MTMYHqXSmN7FnbrJFqvXg5R44I
QbjMsCXWazJR9FFmle/kZpElaMPPgXq7DwxI3r5JdZxEmUb21z1b6tFMs9Zhrv1u
GmgkuJ9qHoNmyG4HsDCNLM41fO2Xl6mBDHMC/pYe+7r13Y+a7r0r5VxglwLne3pU
ljWpqvtVg36K0l7c5TnrSXYxErWkl3cqVyUWIy5ASVxrakYP3ad4Xzx5W7flRrCW
2ijzo5KoRbi+wTQcOlGj9PHlZTlB+eD7BEdfBzAwksz+OD7kD4xFBDDEg5qTdepy
V5dzT1huYJhvysjfZ7FQTJaYdE+9o8FSiw5jRhONcQZeZLVAm/cNHe0+TvJUD4c1
l+YrewJFKaKikWS/rgXvjH3ZK1btE/w58wNi47SZFD2sRKQmL6U+u93E2ZcyZrQZ
vUaYIwCAkHxE0G7OwqVFu9UaYUKDZUAj4YmtAyTZQGVaqrNwmzgQ4KOoFsb1DQIK
KQpgHS/mWmQ1No2GZ04RqTomlSyDSqOFiqcgE32C+kh35Xqfj0LtmBNm7mAR5J4p
xK41KWZBGxwZDg7maH3xkOdnXelEPKONACf+tvYjoS9N9YDbD42y723pmYIiTRoE
17APmjuZmvBlZtNhG58IS45JqOTaN4djB12P0se2ZoXyGCTRJKVqXM34hiKaAHUD
d05+6FDfZa8UeLxfyn+cQZLatJMCshUIGfIbe89zzvFLG7yIDrRGZFTQ1Z0+s+FC
sz6s4dQwCBkFW5GgQ5x9HdEz4jWsje2RBh347G8q6Sd2LOy7YuF4hmiPkL6vTMFy
s8yNwE7yT09Tw95sgWK2RgL1C95oCiEyMOJyasS8y8yKlwRyJEc/xJk5mO7FcmV3
4zjzMJThPXIfL15JQAOHgsS1xcekmuMGiAPTW8lp270uzytaf8hbc1wVpMIiRc05
OudPP1bbC6ze2lBBZZndi76OUYkI3BhGxUM8icDl1Dujp1t/rsO6bhxAB6QCc3sM
aZYG/qwhzTo+PgIjbI2Ba66A/lWQIzA229mcDaxB06UizhWV9xRNygz1bJscccH8
FW4l42aKYtYD/UbumdQNJbK1w6jG/Q6JQSF6F4Zh38SaoUCF/kkLTeIbuaKdgM0Y
4SDs8NoRzqlztkLQrFtJ8Zkr9y0gm8TwfARNbWJHJnBr5/4ECXZ86f1t82hKAysz
KcsQz1b3+xEmfLJmcbkeKukHbhR6EOdaC7DXbTMXHC/MRxG27w3Rhoke5ufl9pqS
zI4fHC0TX+vYol2nOxUbPlveLv5l+mg6E0uMs5YmG49xNZigvvczzytUOOH0tWFT
7sQtroE5KfeaQRNBy7qxInMFPqMgczm22QmtRJKST/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 in Appendix A.3.1:

- A v6 signature packet


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

wsy1BgEeCAAAACkFgmgR5rQioQaj4uFLakk/+TD7JzIfEl6aaIAzi+n7faOuBl6m
V5MkLwAAAACrSBBfUT7vIas9dx8QHh41xBl3AgTJ/ZWeIonCLmgBizODMi0CrzXf
mPUoww+q+7XpwVfY7GuDyvoeR1fUibEW7VfV2sL8/xlYSIq7g48rENa7A/XWuwcS
JqDY1Kmb4RBmKEz8NngMftkmP6/oSey5+e6cKKsrvspxptSPHTlrd6iSUgCqSZ87
OiHjZTVDFWf4ZBSwH0RaXIfk1Wk5OPZKYLMDpbXwqdfPustpvr2uUPkjYCM0Wwbg
GCCtSj5WCiUuM3FytyGXf1hIVimBwP+DnvJwttrzgI6m7E5asfbjG9dUe8RJkrMs
MQWDuTEphzTfxKowhb/jW00j0TZzjfoDzQXSFM3CMdEOlRB+koUCWvKwjJ5L6EWl
B9cZkcGyWN4jEnciOOhEayo7VkViLu2y18S2ZyAo8KSsZAMn+YYW9jlDZerxnjLS
kEOQkWfOXK9JQ/qJNJSvezQKbuNiLOMtBi7HPWBa+YUB3vxzlesViPEOpb8BpWvX
```

```
ZWVwCUKDXnFtApPaWxLSuDeXBzeVrvsmWd/yPfiNCp+5IAmgyXSTEHJPJeH4+Y7x
k6eAVm5iRcwyWOm5CidlOXU/aZEvkPhJd7w0UmSiU7iQp2/BLLlkPWoxsLO/+2sI
2SnrDh/HBotSWr1y/0KHHUkkuQmNCbIhDEjVDqgvi8TFohV0+TQIR/D7P0MvuOLK
yGNwRwFGFMiFcrOXfiXuXAfgo5eLOIO5isF0N4eAoai38VzcAbE/EQ3TM38YvKEt
wFkg9dEp/h6kAi+GXNFz4YmyBChtHA1dyAjTfikrdxrrgEOhlQgzZsq8dMjMA4Ob
AEZviZoKdgWLj0vnxLkG5FX2Mc2O+hpYfDwXoW2Hec+3FJiKnXpRQprb4hpRsEXT
KgcC5gciPSCJ/guh/djkYPj/lURNMfwFsX0RnvHGs+tUSnwIwVwDruwd/8qjKj9A
esr9+viO8pb00muelPNPpI+RL5xm3psQViy1SZiHH0WuyCwff1T2hORbDFs+iH4Q
y+Cbwlg4wsUBPv1l/0jyeUg4h2tI9oNHXsKjfcJlPW4/vaveeumV7NYIqenLe2bY
y6yTu2AjwLwZkMsuYKjr8OjPkH1S09No4xYuoCP/QHt0l5eB/TIgIUwSmLR5SEt5
gBdIAF6yQSmEIBceZOdEWAvcSW5KJGOIdlhWYJTAtdWqdmku8JSpvcUR1C0pKPs9
J+VgDuDH9PJEMgCObwwoWg2ctOAVZDPx1/Ar33SutMbOvlZkC/CjxnXdhJnj0Sjr
Q1rW40X3lck0gDKwxVjPApvvCvg6B/AwipB5hBx9rKoi0pRg/rRHFYZDlNEuz8bT
HzTYJyWQ3G44nltcNEJg4tyX9YHFeHKQ5qq2j0+Fj9NghjCsndk8Q0pedJbYbqXy
VSxvKXF4rkqDQdrG+pCxBgiqVO/HP0p/WUIDyxSuVUyAKvG8bRBwLSmIlA4yDe3g
TyWbR0iIFIEOqJF07X6F/0Ka5PqKzQW30md1xjrq1H/xe1VOolA+S+iUIk4f2yaG
eIrKkukbiHhXfDDFX+uJBRLQ5zhJ16GIgJ0+HlJUZao3s5zH8veMOp7HQCzaytr0
AZLEXiw8BSXDkuT63qPcE/VTZwhpSa1uE7O0G4E32cOfEGGQvZa5PUbzNZFUcxcp
1XEnyGo6Z75wCVye0llq722WGvmFh8ECU00Qcep3RkuscP7lFuvNdctunnl/HFCA
ikQf826SRbZG/+kPm+OzJj98xiieUTmdpcLjNVeGJi/r3YCFKKR6dyFACfI/mqx0
EFbqjahwYiN7OzOYMAtycxJM5SqE+rpRmtUi2aRqBJkGkZxJxxNYsgrg2Gf4Uz54
T1zchOoMMkfNFGDFCcc6zwij0QzwgBmiq+tIA5UEPNjZzhdCQWKihpM7AE1GTIRi
pbcE5dIVUcPLD87ZDlsHNhi9HpV1IkdPkm5R/kyeZvHteph/czVjxe0t4UblZiOW
Brl/umGW3wAp79KzGHUaobel5CUXuiTEXxvVnWsK0UvsY4uNaS//XZzgxnRdgUfJ
9dHz9OI1V6ae+3aJfROKZWzeMzvnwo/tUgkSvYGoBnYkTSKVnvmFUvcuEYlc+6J5
04JuqzxwKbHPqHVhAQHztJr1pQMVcufQwqZ+TfJ1zJxa9edShnaLgcSvrw6M5qQV
Exd/avqyGZr1a9Ll64y/AvP2vB/TiMGmCVfGyYLZ1kzKhJO8+tWSLet2aCPeG0qI
QMusOF4g5cG75Ft7BVstA3zSvzqvwfuqVfJsIFYS41c9tKhPt3mL/LT4nFPlr5F1
K5Bx5fVT8bl9nkvvc+RwdtNddJ9tO4DkbkpQe+yW4cuoZ7kzmjjYEreTBRxFPIkn
xWdZ2KUkrjUjhHvu15Zdjq0PK8MoUVM5XtRtXGFNZOODq7gGHvcUpkb+t6eXJxle
L+L7gH+WvqxoPyHFdP3njkKZt5XqQetyTKyYCJasOjoTbEg60TrcFInt5kdkGiDi
ZVhIiWTRjqrNg+o9ZDFbqQsFvJSLEUTZ/bI8gx+ZczVqor7UZgoTbTaRwkks3hCs
2iPwCDS5EVvJNfYdsinzBrVuMNHMlbymegAJoJ88U7oo0SvQYbyI/zgdQBeSnplD
IprHNDKh32blxI+31yPcUiSQYzqgv+alPzNNHHT9IcY8e14zg9eYlVJuIuNFdbpS
X/na9A02uptbRYJoTYpyZZAmY9DiSt1Zuc/caI1wFHCWkVkGS60gT8gHP++nc5zv
KPPGeaqMrB49sEouYi2lHT+M+2kRRNZSKGzV12iMFSohPIJ1NalulUdakr0JPQEP
S7HTbSp/cjl+lHuhNYYKbyjqbuMPULtMzeAJ3dgZ9cC2npL8baQLfE0LTVwJHtGO
BaLGG5DmtPYcAGRJRfd9Xehm6wIJbGYsBjydSDthqDJoPS67zTR4soij4CArUVnO
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```

```
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WaZbGtQKJLhp6JGintpG8y1/nFhHwIbgUSohFStSdXmKptxnbp/NdsfNAgoPEyBh
xcwAASBQgIkTHCxJU1dtnrzwAAAAAAAAAAAAAAAAAAAAgMDxcdJw==
-----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-----

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```

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


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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mo/dqX7DD7lo8ZxudK04KBVpHqAPtxd7CtvJljNdpxSnLtcsLb6fbMZMDNfFZ2Qs
xyHekTj8w2P6lpgSaMgBMC3AfSFx3y/pd6QUEK51TgqosslckmDn84PN75K0otEN
FY7U55zb1U8dRE91F1T5g6V9IKBWwB7G4ONj0b5btn0AfZPXBIcE5GZEUUDkJKRQ
qB0wuWxcslC6AP2dKfdo9C3DJ6WOdmVUuSYUM6hPpcnWaBP9O1xbcGP68D3qkRhM
PUsK+I2Z9aYldTwWpVSqsF2aSvv2SGxPZ0g2bDHfdHIrCl6xDlmdap28LtpSZFtz
v2dyTQKTZOWY82zQPkc8/vhJZCLF8N24K7N6XuQkOFkGf02jHA7rIlNCRFdQvL5l
mxJ+v6/zTU+ukZsxwu8pl7FTyAkZbapb33bL9UlsjGWOfyd5LA4ifugGZ0IdQhn9
tImXmxkFj04USpeR+IRl0ene05xl6EjTRRLCaYUdZ0WvD2STnVstMXBtBNH4rn9Q
PriLKWo4DAGA3rR2+f/FHlrgIByKa51/8N1wRTbHl/G+P3IV7oCUwSE4R5cDcDv6
uxr29/kfandX9vLKTLZbkCOUZENA6ZHycFH+krJxJPyf1pwGBt/oFkVDLJ788cVm
qTD8XLDM5PBAvtifrVTWWVABc50XBE5mdu45dH1/vNP6EltkeoWGuN3yGh85OrPy
+hA+VW/H9x4gMD9A2CE9QUWkx+X7B2N9n/cAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
BQwVHCIoMDU=
-----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 `f18f161e617b8ce5968f109aadea1e7e1511d10165768d36127ba913c00637d2`.

The hex-encoded `ecdhKeyShare` input to `multiKeyCombine` is `732860c8114ae84a964664b1f607785d11bc7d24d5324510adad89bd52db7ee0df9982ad0d1669bdd05556330c86f2dae9e2edea42e05bc5`.

The hex-encoded output of `multiKeyCombine` is `ef1e32906f67d39bc800d90cabb0033c77ca6dce8ffca3e96d9c7348e2e8c16e`.

The hex-encoded session key is `0588ce40b038aac353d1cf8c67a674b41298510579482101 3ef154f786c4d89d`.


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

wcXlBiEGZQkOFHqBFqt/YqtOx6rlnZ5lMv6yryMMc83IafvGDI8k+1L82B20zVhA
oM7SlT0Fw2YTo01uIa3PkDiMXQyEG8jMcy3dqaNxaPBL02xqO7/IXtL6mRUVUM/j
zblVH4wSEvdx/V8Qm4xa2V0cgCHrJtA/AULernGMcQA2Oyci5Tbp0KY55rh5+Dee
vpLTNI/XHuosvvysqYI35i8XygtAJ7xpd63IA7ZyOy5xNN3nL1QP0/TmKpoCWmvq
cet8Mad/Mfybbf2MMtKf9q0IDxy1LoREscUakF60djHt+PIUcUO64or6rzQv4q9p
zC/YlGwr4CrBBFdQ2fAMATU9GUawp+zJ1OdjB3efwwtmuxB5EVadgzWa0YyCBEns
sJIcitRlKRRTq5kUH1HfFwJ5nRzkFPWopn+oAhujCg9OOyzTeRBgSSs2apZ/3QF+
k6V7IOr8H5MAcL392PRyHrw7Ou1HU0xfCU1YKJdXr49Z9eaz1wRD8RhsMfDlnUi0
YFAVTTaOuIWvzjk0ZKkyzVzjNfqTEl0lc13UMdgDDw3BMSEpgM4+Lrmx6b9/XzLI
/dCb4GhRwktGmIIVX0n3Y6X+Wi+68BvM4b2N4Y4SyyC3z5dl74MyP39VvvdM+Cit
/TKrQFhbcv1sPXtFLIU9PJBbR/9h18BSaycQD/RRnCpcRbQNRkVjM7FZaZiR9iF/
6xgsM1L8SX0MZFFk4j6FDbQRC80obtmSbnPm2o5OQ2M5v37GbiNAPgl0BmSSugCl
VApBVLcdCHpV1pIwIMMmBGtNIsB3N9uny9YZqghosWSjuyHySU6O8FIevUv4yI5T
tVl62wPwLX5yz1L/OAKBO66tKjF4yE7OyVqtIe2LWXNolK8Xs0j0mbSxVGJIgnGu
RijHuhwtgfO2ZHE1seAeZz/o01QJC3QDDMWdE3/GDDdMjlGZsJwxf1dAPdN5gAgP
cqZhQPvRX5Bua1tUQAyn8ZsOqqe0vyEYWyOG9ROP1dLgjCqYcYpNzVrNWOXEdZ6V
8Liei2plfCYpFIIVbVAhDM8Jf8e7ZXXWy4ZQ/zVRA6eSlETUya6VsCwvFPW3xmg+
CRP6g80DGiNUSyBxopir6QrJSU7LyDo27TsonbzUdHtif8diWDONs6kHkamz/Yx8
uEFd1YnUwBuqRADScWjdlKzOUH6yIsydAxIgwdCUCqX97BHkc4rHLXjkrTfdym7V
8Uorxq24SZ4nMkIS7wBpuMQPzVfaUSCuEm7d9cSI/Z6GRHIOyT9MUvqU2U9obsb/
mAY6pBAd5VjOaVHSQNXRVQX5AiqoehyCeceCc41IhORkCyqv7eZE1nzFV5m72FHL
7PB0u2ZDszoYt9D+A/AVnGCqrkFuZ4CJ5NY0n/3UWi9CKAftmeQ5X1PLJK9esFxG
Kge7yIuUf3c4tEtwEen4ReFKUebOtYGO1Nr3ZVziKxK03dDJ19D3RVSIa/Vz4rjT
2nPmSJ1eaD3aBeAlOC8iASeZFZ8Sf++lTC3Vh2Zahfw0EFSlPP0BRCHRHvjZOtN/
8Rkhit5KvS0JT57dsFW9h7zgTLoqMqMTP2k5d+rb8w+Z3962Af32cl0IMVLkx0dS
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/aIRERZtOg3Yv5GGUd2+8vksdhD2EjwkH2mrKrbdlc8q00WbvjhjcIH8TanxuPYn
rtnrNDldFJRkIYnnFbuJB/f/J9kYIq5p1QoVtF2EBkuXOlaVkoy1J2JdXmCGEoSd
u5AGhkddwZp30YE7vU1KK6y99dwijhR5N1kskd0OKHi2fCbds4UkGnlv8R+ebgzt
FHZMWxNtQ/ABmZpf2OazX6/cIjM0v2SkEVRtgg23++B5ly4EbxQMX10jAjNFshg4
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MKh9GYSvs2amhNxHuGcWTWqF4PK2sJY0eqWNsacpMJY+L6iZs18ojJtPQs1/bOut
BSKesQbm1Cf/i3wUFS2EJNO+gyD/LbZgsroaPhz0bSj2krr5pbCTb6cHkW/o+XVb
myPws8XqAzi9VAlN9X6lRWYq6GV+7pTL0uwCCQIMgygcPeutDpq847LNkkSl0QJo
28FjRuzuCK/BM8DlFTqbnfKUyKMqzzhjwLw8FNt0yI9c+YlGp1Jn5r7UAgMKGBgz
vWxebc0W2BACXS9tJRrEmeocdg/Y1oT0b2UcLXBgVkPMJg11E3Bs0bmgL2khCPxv
3thnS9NFSLKSixeHmIUI2I5JA0S4+6cgLiLZ93JUa8/ccZJd5ewlwRHGpsMZYLa4
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usteBjamVStvSCOq2M9eFv2IS7LcCRwIFzPURDBEKdkMg60owgvB4ItOmKpkm6WM
QnKuPOXSdsroJq6BnuOXr7KA6mw7yXBYOwNxmxPe0zDUlPDi1Qi37f5FAyxuDK4D
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vB5JI0FysWFThycVWxjQLiQtTgfhivElgiX34OOrA1u+tQuNiBYJN9DObBRfJ+Tg
```

```
XII7sV1YpA9P7vGFkZC+7J7EyVON9V+y7dh7Ab9IGC91H0utqx+XXoARqx/UzQo6
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Kt4alr7p4VgAOFOQxrx/w9WcQBgHt/Iwofr3vlhG4r8Pe/zTNcrzhSkcMdLNiyTT
PK/JCIGBFeoyvQYMjXfQQM64exe1MRgSG91XJo42zP5klfC+VK8bOUCT8JOQ8uJK
0K01gHj5HJoL1Skt9h7cFwDNSAxp90RrL3CwTxDXGZH5EmEu/JsHYV8ZJTGex64l
jHLxNtFmHRrwmNkShWio4nYFuZBwbzr4BTjRZyX9mpWhSeVIDp2SV/lv1tewI/ak
VFnmVB3kwmvnTp2I3V24c4QoARI2NAPEdSG9Z98qm3PWFbA334jlCNLwFc5hEQTh
a+i12bNp1uXj28m9+dD7bIiZ2tWmNhH42vXJwpT0EVAX8NcxvDtCivOpzIfnoiB4
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yHIvL+8QUQb2gLOda1LWt5l7SThfg6QYEZqOYx/GTKyAH1rwei43G0auVucRP0AT
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HXAv2StNq1HksBhbFKpuMD3Iz0PX639PdC+cH9jAXtvk9YQdeUvOmYuaKT6BV0xX
O5O5KIYw+7eIKqxJPLDQWis9oGlVhyHJB5NKkDaEbuH5SogqltNdVzVUA9k/HoxE
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kiQI1aFuSlHEVwzXywxmKZ8DdjPA7ZZnYHIIXQbLQ3O++wOqYbNZnI3yYkRot+oH
BisENs+Q0JC2jgntrXs5ugu7eOzd9c7/GmOa2nvZGg+AX67/6oeUZHl5ZYertL/0
hoSQgmWj2EIupeFNacm8QRVWuxLuw3lmegGI5evGkVxb9sJToDdcbB3AP2rzEw/f
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rsKPl/4zqYfwS3BpNwwSdQm2EsOhZ/j3+Xo+T7PQHcRbG6+GDWcVDw6xFOxyPFkH
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haW8fZcdomYry7uetpRKEwaeY8FRU6iQU/nfFlsn2BPIlzaAyGI++XxA9ljWmn4j
YD5VP/exoocf/MYrBpQflEqgiXXe4AmBe5zzx752siJi+9B4XuOIu9j3p8+k3J4F
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```

```
zdjlqdDFcPsIM6Ga6hSTiK3aMQ6AvUpGkQrJidy4GVwsULLEHpHisVJEmyz73SQ4
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xrXdH7Rb/saIsGT25bL65cv1F0cCEEQedj3zD/U9Dgrnl+0t+kNhCc1FY773/oHl
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pE5tNfApgVc27sO/A0EjkMYxC4iekaOOzkLhdc7hdlYFhQOX+Fc7+4GqEnW0Kuz7
LgXt75pZa6doh9RZh1Laic+ayl4JZGT0IbRSPLQn92AHS7HD5YAsJrwnev2L2N1z
3xQNGoIvCBw7GXt5oMe1FLLbykhoOli4Oco0aOgMZm9JVP4RVHCoxWcMdz07a5cP
mwis3HBoIakO3z/uXE4W1zvCtoLaeAt6BhFbGJsMjRK/RbknVphwLTKBZWf1fw0Q
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RndrBzSIqzm4f89faqCUmpLGIHwg0K5IZvgKA22lwhxEMbF4hM6AcpL6VVGT/U8a
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6LKPB4B48c2bK9IBdw0mthZyTtKLFtaiTq70si7TrwEyWqAv9XonjE56mX7joAyv
90RpJVuqikkvNaW3RNeLcVDvaVg69p8h+nUkC6HFktJw6vVg06xPGWb/dKNDHvDv
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uAk2ky4ULBquYvDAfKlP/ctTuvXKxFGOLfjs2SWHM7oE6uT5ZRjFcTuFGCh4Keto
8NY8lm3CNRlbowG/Zb7BRtGVMp1QyH+oNWWhQnX4qa4UWxLt1fVhBd4ydsf952sd
2+UvVpojaPMtH60a/oArv8EF7qSGtJ9SCeO4we+pgVyCnVG/HgdidKjkpuWl5kFe
revN2ps8CB6HdPS3pu3cbIUYFB1kq/bGzN8jRGW4el09C3J8u16sJAdEKiI3CyGD
LovztLij3S1Fa8xhCzAwSQY5ap+3MveW3ZZfRkQUmHasLfsbUqR6o+KyYzBdMrq7
r9dO/yldgvycbQA=
-----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-----

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```

```
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Bw4/Xqbj8PgAAAAAAAAAAAAAAAAAAAAAABQ0XHycvMzs=
-----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-----

xWsGZ3SFgCAAAAAgQPDNHNhyzJ2PPw0ek0AW0by2yelpy7HxW0OF6n3NhroAv0y3
```

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


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LSO5FGn4a+5I7U2tt9KygeWR/NZW2umxdkbBfJ8xA6Ju5GowRXQoM97hw3U2Vk/b
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gVP2l/ipOTzFwnhYcuUvQsJIybtzlXsRtWNnwRgyaCnOFUEr37p0WjtN4p10+azL
Qxx1rxo3Nq0OgAG4DbYd4U9I7ftUm9W7BGjZF0GnZhbJQx8to5m1WnrlOrwqlprC
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f1wjU/F9iWspfXL02bon6clq0cq9gmkbzwf5UWRNQ7bfkLpTWtfPttI6SVSGRlif
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kvhci6CiPLiFZm5+xdg04e2tdjjLPSeZiwQo6Lpb0fvxYoF3d3+4+uye5W8DbkZD
3aY7uLKvM0iePTXDzLUwTtkJkvLf40SZmxGdWmYMfP3aro8mXBzVJ0UZZbuFkF+7
e/QPrYn0Kg7zN3A9N+Wsx+3EZ+69sTPelORJ7pHxsnLzrFjzeZjf0gejI5vdyjBe
yZUjslqzs1yiPMm6UCFVZmNQWR+tyDg+RC6qmA71RSogO+VSWDhT4ELR1SZhLFC1
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OqNezwg+Kx8swBvpPxAQMCzVq9CVfHzdUDt0C/imQekRIreSX6zUbgsbeQeSO3j0
cOrVcviHJIqF4pArtSHV0pUIMcusFC5I1Z0ARKsrOSngGNmRTigQ
-----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-----

wcPtBiEGPodFpLtIh3ng8ySA+iP40L/YwvSdf3TpV+HC/8LvS/wjluPo1tUoCKbW
weuHjD9Wqa+CrC/TgHJTyTTWkNa0e2xdCyF1k9TgeGmThknayCV6zl7cbL+8ZfCu
it8dD/1X671JU76aZEJy4vqPj0RoqZq0zOx4pekBDIVv0a4tHylH7yrccirnnsNl
```

```
3Zj6IJmiwXJUha0wM37KJG0sSeOyAgEf5hLzlAWQtliOm50yhvJXXH2EZ2lvcXMc
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/Neh4msKrZG1UE7tWmD1kvbtQWdNPTn4oOSdx5ME76PYCN5ilcVwJ7AC2NNoTpqI
SkBUi6HK58rUwRGzF+pnuzWrJKTbx559bt2pvIsJBVMermUcf3qR6P468TEZu1+b
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```

```
ku1AUv72S+3Gl7rgTFy8FZQ0dc1kBEVrOMND5i4oaqPONhAjUO3i9Qdb4Q9HE10v
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```

```
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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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qys5KeAY2ZFOKBA=
-----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 `d54e0307021169f7b88beb2b76e3aad0e114be1a8f982d74dba9ca51d03537f4`.

The subkey has the fingerprint `d8875664256c382dd7f3a5ce05021088922811f5d0b1a1f8c7769944a51b7002`.


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

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```

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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


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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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