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Authors: S. Kousidis J. Roth F. Strenzke A. Wussler
BSI MTG AG MTG AG Proton AG

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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]. ML-KEM [FIPS-203] was selected as a Key Encapsulation Mechanism (KEM). A KEM is a modern building block for public key encryption. ML-DSA [FIPS-204] and SLH-DSA [FIPS-205] were selected 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", "non-composite", and "traditional" 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 Module Learning with Errors (MLWE) problem. 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 parameterized.

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 parameterization 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, for the ML-KEM composite schemes, in the case of a v3 PKESK packet, the symmetric algorithm identifier is not encrypted. This follows the construction of X25519 and X448 specified in [RFC9580]. 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:

```
(mldsSignature) <- ML-DSA.Sign(mldsSecretKey, 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(mldsPublicKey, dataDigest, mldsSignature)
```

ML-DSA has the parameterization 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 x_i 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 x_i 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	32 octets	32 octets	64 octets
Secret key	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 parsability, 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 listed below to the "OpenPGP Public Key Algorithms" registry at [\[IANA-OPENPGP\]](#).

ID: 30

Algorithm: ML-DSA-65+Ed25519

Public Key Format: 32-octet Ed25519 public key ([Table 6](#)), 1952-octet ML-DSA-65 public key ([Table 7](#))

Secret Key Format: 32-octet Ed25519 secret key ([Table 6](#)), 32-octet ML-DSA-65 secret key ([Table 7](#))

Signature Format: 64-octet Ed25519 signature ([Table 6](#)), 3309-octet ML-DSA-65 signature ([Table 7](#))

PKESK Format: N/A

Reference: [Section 5](#)

ID: 31

Algorithm: ML-DSA-87+Ed448

Public Key Format: 57-octet Ed448 public key ([Table 6](#)), 2592-octet ML-DSA-87 public key ([Table 7](#))

Secret Key Format: 57-octet Ed448 secret key ([Table 6](#)), 32-octet ML-DSA-87 secret key ([Table 7](#))

Signature Format: 114-octet Ed448 signature ([Table 6](#)), 4627-octet ML-DSA-87 signature ([Table 7](#))

PKESK Format: N/A

Reference: [Section 5](#)

ID: 32

Algorithm: SLH-DSA-SHAKE-128s

Public Key Format: 32-octet public key ([Table 8](#))

Secret Key Format: 64-octet secret key ([Table 8](#))

Signature Format: 7856-octet signature ([Table 8](#))

PKESK Format: N/A

Reference: [Section 6.1](#)

ID: 33

Algorithm: SLH-DSA-SHAKE-128f

Public Key Format: 32-octet public key ([Table 8](#))

Secret Key Format: 64-octet secret key ([Table 8](#))

Signature Format: 17088-octet signature ([Table 8](#))

PKESK Format: N/A

Reference: [Section 6.1](#)

ID: 34

Algorithm: SLH-DSA-SHAKE-256s

Public Key Format: 64-octet public key ([Table 8](#))

Secret Key Format: 128-octet secret key ([Table 8](#))

Signature Format: 29792-octet signature ([Table 8](#))

PKESK Format: N/A

Reference: [Section 6.1](#)

ID: 35

Algorithm: ML-KEM-768+X25519

Public Key Format: 32-octet X25519 public key ([Table 3](#)), 1184-octet ML-KEM-768 public key ([Table 4](#))

Secret Key Format: 32-octet X25519 secret key ([Table 3](#)), 64-octet ML-KEM-768 secret key ([Table 4](#))

Signature Format: N/A

PKESK Format: 32-octet X25519 ciphertext, 1088-octet ML-KEM-768 ciphertext, 1 octet remaining length, [1-octet algorithm ID in the case of v3 PKESK,] n octets wrapped session key ([Section 4.3.1](#))

Reference: [Section 4](#)

ID: 36

Algorithm: ML-KEM-1024+X448

Public Key Format: 56-octet X448 public key (Table 3), 1568-octet ML-KEM-1024 public key (Table 4)

Secret Key Format: 56-octet X448 secret key (Table 3), 64-octet ML-KEM-1024 secret key (Table 4)

Signature Format: N/A

PKESK Format: 56-octet X448 ciphertext, 1568-octet ML-KEM-1024 ciphertext, 1 octet remaining length, [1-octet algorithm ID in the case of v3 PKESK,] n octets wrapped session key (Section 4.3.1)

Reference: Section 4

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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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/BYJndIWAAsJ
BwIVCAIWAAKbAwIeCSKhBseJ4X2dvcp7PIM6PAY/6wNT+ArZef4nho+wZF34A+lH
BScJAgcCAAAAADQ7EIBsYsSttPe/Uf3gEmjU8NG0Ej59FY8N8de0aowAompVXg4Q
T9j1IsjmU28Ex/k1PTewAx50oeQpQbJ4jjH+R/OZ730kkv+c+1mea5dpJdINzS5Q
UUMgdXNlciAoVGVzdCBLZXkpIDxwcWMtdGVzdC1rZXlAZXhhbXBsZS5jb20+wosG
ExsIAAAALAWCZ3SfGAIzASKhBseJ4X2dvcp7PIM6PAY/6wNT+ArZef4nho+wZF34
A+lHAAAAAD4xEP1vPFA18bTluf3pkoZII9dcK1tRjMIkbZqDg5e19xpB50br+7lg
CeQ4F0lsdrb9u7+twdm46fd6pR74naBnq6puYgsQn1LpTfnWqX6BB7sHx8RrBmd0
hYAJAAAEwCIVC0MM9yTsGbi+Vd+byq3jJwhXETAUBKV1yAI0Q7BfXkJC3YN0sGUL
B1LIvZBS1FEx/9op4ncn+0J9IKeKzuu449mu2UdNA/XK+5w1+sGGdTVNrJq3s7R/
BktVNWBMG0t+eYBtItQaxwYucs0ntc0344uH1BA+ZHIALxsHN6KrZPCeqf9ppTB
8UALvVR0JATPtyyuxFw6MUex06G1YzirMXafH8jK5KqZJbjBKWwPo7bIsBBbLpqq
9yQxb7YYJ6VQMGkitrRwWNwQxTGDtee8/FyUMIYk1GMewmG65RkKrBMKICsBX71D
1cQ7fisEp7Y+Wo0Vqass6Fu0WKJLlhyrg+A93oUsNBhGz/iEgJehP2g8AQPnMn0+
IicgIwQdV+YJRreWkVQosYMHxtopQRWRXmmrGKPFYeoZvoo6qR+JImvIDgy0gV/
eEun8iVoQbxuBXPIQXJ0ic0FPiWjXisG/0G3r0yRE9o0iv1xZPku2qKayfFtMwxb
NWg54iev/uRfrjRRH0nL0SaxigY8N0FIwaTB4uMeyqphG+Ri7nSgnLVxaES9/tzN
iKlgsuAuC5k7E+XPAonGy9Ikm+oHJ9hg0XKNzvyNR/uwWhB2WFmFDRB3ldVE3/wh
LLe7yPmptIFWZ3J2LaaFqTyUhoNW6spRkUWENMgo3MxRS3QgmBGXqou6/7RT2tdV
rWIY8WJ05SmMnZcrJ6oX3qKYgFiJJgCTuUegr/cNNJNLE/shyedkdxfg6jaQSzrL
xOWg0fBHtrd1snWWryCofwi7ray3HjNnKjNddfichjWkLpu5H2dYM/Czdnmm0lk9
71vJgeZ6SrivUlWlTHDIkVqVr5F+iPXHU+Wd6hcUxrIH4eUXTJFIUYiamSqb35cg
AAzOBBS/DKwD46p0URchwRNRUbu47qiJE4AT6Ia0dTFkCSRezaJXBNe9+oisPDct
QTx/VZaktkvK4hc+DLwuMiQuQmoev0CgzLlR7XpxvCaEGY0iFTJydFtlhepmheZ3
k0puE51Y8A0JBEd1PKPEDzwd0w0BxaMTEQGiPqH39Ens4q08Bc0XjANqwtjxVot
JIur1BcxgsZ16RZ0yiaRcCs358AMrExMScNfU+HBI0NqxRkzCPOqn3sCMzQ0+dwJ
uxNUoEYDcUAtYos8+1BdaHvGaeNMY3EuxQWeAJQEN4dpYfe29qlcY0wcHRtYosmL
c70aHMq7wnCzdJeyiHobAIgVZGZvAyW6w9cTlQd2pTdsDgSm08or69gYPKxsmLei
b3JoytejtBhnaexyfeCFhksHzJlu48l65DFE3h5Pmqj8vRGffik2qbIzrU11a1a
/IiJD7RnwTQCyu0++yKba7rC1qXCXBFZixBwwTavHeEAPNnMmWxDfna2frNnFKRo
dDaTM7o76Gs7rgTIElAZqfZih1yAJpSwjEcVDZdIRaRTrkK/4PJzVHGb4wwk0wfl
oPEBCMuAYTxfqJVEgdBi6pUsPaEQzkUeIe0VgoFnMhP3+N22fMWkCBc/LY0ThtP
XFwtHkq5jmmj+aiuyG0aadccBKWtvxloBly25QADfbyI2oImtVu1JDjFCf6PQ74U
WSEf9EvmTgsMQq/TPICLDUyoTkteLTQAwE2+uDYPxbo85x1Z2/yGneciXS8MvfbqB
z8ZOI/y0C3xRsn7ZFZ2nEAaP9RUBoQSSkc/gerixe47HC7X+MP6h7UAy49+ndvR0
6AHx2zZzPiDLZ0NgX3p6Aem45zjfMT7+wosGGBsIAAAALAWCZ3SfGAKbDCKhBseJ
4X2dvcp7PIM6PAY/6wNT+ArZef4nho+wZF34A+lHAAAAAMitELFBvWMJM18SWIqP
kabwn0QbeR9GdZt2dJZF0Y08qGRmL0+T7GIaYj9TlzHonA3y01AA1Ydfvo1BM2gL
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/3K0Q480cxsp1t0/1w2687B8uqUTCvzCngYf
GwgAAAA/BYJndIWAAsJBwIVCAIWAAbAwIeCSKhBseJ4X2dvcp7PIM6PAY/6wNT
+ArZef4nho+wZF34A+lHBSjAgcAAAAADQ7EIBsYsSttPe/Uf3gEmjU8NG0Ej59
FY8N8de0aowAompVXg4QT9j1IsjmU28Ex/k1PTewAx50oeQpQbJ4jjH+R/OZ730k
kv+c+1mea5dpJdINzS5QUUMgdXNlciAoVGvzdCBLZXkpIDxwcWMTdGVzdC1rZXlA
ZXhhbXBsZS5jb20+wosGExsIAAAALAWCZ3SFgAIZASKhBseJ4X2dvcp7PIM6PAY/
6wNT+ArZef4nho+wZF34A+lHAAAAAD4xEP1vPfa18bTluf3pkoZII9dcKlTrjMik
bZqDg5e19xpB50br+7lgCeQ4F0lSdrb9u7+twdm46fd6pR74naBnq6puYgsQn1Lp
TfnWqX6BB7sHzsQKBmd0hYAjAAAEwCIVC0MM9yTsGbi+Vd+byq3jJwhXETaUBKV1
yAI0Q7BfXkJC3YN0sGULB1LIVZBS1FEx/9op4ncn+0J9IKeKzUU449mu2UDNA/XK
+5w1+sGdTVNrJq3s7R/BktVNWBMG0t+eYBtItQaxwYucsOntc0344uH1BA+ZHIA
LxsHN6KrZPCeqfF9ppTB8UA1vVR0JATPtyyuxFw6MUex06G1YzirMXafH8jK5KqZ
JbjBKWwPo7bIsBBbLpqq9yQxb7YYJ6VQMgkitrRwWNwQxTGDTeE8/FyUMIYk1GMe
wmG65RkKrBMKICsBX71D1cQ7fisEp7Y+Wo0Vqass6Fu0WKJLIhyrg+A93oUsNBhG
z/iEgJehP2g8AQPNNm0+IicgIwQdV+YJRreWKvQosYMHxtpQRWKRXmmrGKPFYeo
zvoo6qR+JImvIDgy0gV/eEun8iVoQbxuBXPIQXJ0ic0FPiWjXisG/0G3r0yRE9o0
ivlxZPKu2qKayfFtMwxbNWg54ieV/uRfrjRRH0nL0SaxigY8N0FIwaTB4uMeyqph
G+Ri7nSgnLVxaES9/tzNiKlgsuAuC5k7E+XPAonGy9Ik+oHJ9hg0XKNzvyNR/uw
WhB2WFmFDRB31dVE3/whLLe7yPmptIFWZ3J2LaaFqTyUhoNW6spRkUWeNMgo3MxR
S3QgmBGXqou6/7RT2tdVrWIY8WJ05SmMnZcrJ6oX3qKYgFiJJgCTuUegr/cNNJNL
E/shyedkdxfg6jaQSzrLx0Wg0fBHtrd1snWWryCofwi7ray3HjNnKjNddfichjWk
Lpu5H2dYM/Czdnmm01k971vJgeZ6SrivU1wLTHDIkVqVr5F+iPXHU+Wd6hcUxriH
4eUXTJFIUYiamSqb35cgAAz0BBS/DKwD46p0URchwRNRUbu47qiJE4AT6Ia0dTFk
CSRezaJXBNe9+oisPDctQTx/VZaktkvK4hc+DLwuMiQuQMoev0CgzLlr7XpxvCaE
GY0iFTJydFtlhepmheZ3k0puE51Y8A0JBE1PKPEDzWqD0w0BxaMTEQGipqH39EN
s4q08Bc0XjANqwtjxVotJIur1BcxgsZ16RZ0yiaRcCs358AMrExMScnfU+HBIONq
xRkzCPOqn3sCMzQ0+dwJuxNUoEYDcUAAtYos8+1BdaHvGaeNMY3EuxQWeAJQEN4dp
Yfe29qlcY0wchrTYosmLc70aHMq7wnCzdJeyiHobAIgVZGZvAyW6w9cT1Qd2pTds
DgSm08or69gYPKxsmLeib3JoytejtBhnaexyfeCFhksHzJlu48165fDFE3h5Pmqj
8vRgfFik2qbIzrU11ala/IiJD7RnwTQCYu0++yKba7rC1qXCXBFZixBwwTavHeEA
PNNmMwXdfna2frNnFKRodDaTM7o76Gs7rgTIELaZQfZih1yAJpSwjEcVDZdIRaRT
rkK/4PjzVHGb4wwwk0wflPoPEBCmuAYTxfqJVEgdBi6pUsPaEQzkUeIeOVgoFnmhP
3+N22fMWKCBc/LY0ThtPXFwTtkq5jmmj+aiuyG0aadccBKWTVx1oBly25QADfbYI
2oImtVu1JDjFCf6PQ74UWSEf9EvmTgsMQq/TPICLDUyoTkteLTTciwYYGwgAAAAAs
BYJndIWAAsMIqEGx4nhfZ29yns8gzo8Bj/rA1P4CtkR/ieGj7BkXfgD6UcAAAAA
yK0QsUG9YwkzXxJYio+RpvCc5Bt5H0Z1m3Z01kXRg7yoZGYs75PsYhpiP10XMeic
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-----

```
wcPtBiEG2v4067JnXs/Nwgoj/onKXRLoP1J9+jVLbc9mITGki50jheL+TOBHsjFH
wVgycjiaAbS8K5lGfQw4rBjSsx16Smu90uphsP45SHdcYxgCXThuQ7TN+iSi+eCg
6NwID4cGRb4jVXdg0S9ur3ehWmC142K5BukkbWWBQDJM0hQa9DW+Lz+5PAb6J0fF
OGfbXzRTmuNBM8nePrigX0rtDe00K6qZlDvBjX0x5mvuCeJ/33WnfJFYPhxpZfv0
+605dm/Sy+I0QUpaKrViXZoR4Z01gm35NKgYCUmYPV9MspsF8ayZ1i0WkTnLbauU
WuDCTl8KNbMQ4WP5Q0axs65CV82AYMkpRBoCmsgjffBy8fxSeqIKh1qghV3s+7xD
cpSxUc+220//NMNTq6nwDeMwjQ8k015EhFWD0WT2QNXBPMTXrQV0jox5viI+ogom
0+SkE3I66B770Kt0wNP4CQ8dFD2hJpk/G1+ymGNyhMqYCN4hTa4aI17LAB1Kpvjc
1ZSK4xijo2m4ua89V9eidgKio8RrikzEe6kw0ydA21lNyHjCDPfZ3CYtDp0BYXgB
r10MnZWCGMj/tMU4Pa6qvK7/m0szCpEY0y+nYEnfgiohsuf41U2GeybUrFY0v51W
EF4X6nRatKz/Bz25Tzr1XYgYPbMy0m3gUPR0TH31lNur3EoQLq4n4br9ejUX/VfK
ZPEkWKug/Im8pnz82lv0aqJVqnyEeDY0ViIDbCnjVHhI9CVck8rstECjLcJSk9Tz
qS+8Tpi07ie6F91XARiaBwd8HopF4R1LmnKcEhEF7/7cJVKTaa0mZR5FRzIGn1oK
e0ANAN0LFP5w2HZqXbpmuRwKrpyfkIsHYjFRG09xDMf7uPIqPzE1qL2yVIfpeDGP
rHvJbGzcTJ86r5qHA//257mArffHD24QWytBivPkFDJRWIIQh3Nu3tNwWif5kTar
Tgr66CPfwBa/hLeQWPGcFq0ylh3rhG8CYvxY5cyj40SCp3Q7M3dxodS2XsWICKoU
GDo0E9uieJc7f80397DGp4E3BgP7s/Xk2ncWT7NlRpctYgFiMKCjEdSWb008C8RG
80YgBnMcY3p5xqk2u621JcCeus3uf3Kg6wUBPokja5Xd1LbVQId+80MzEDYjvhv3x
6c/F0az/Lrzq3/2dpn3vy0rU9WZ593WRnVZ70pcIWQqaJYCioyZ7mkTkqyhg8P38
YUZuFtSGGk69n7QD3bdZBjzbMRnvevQuxXe6+WeXaT9uvEY/GKLEstgpoI1aDS97
Ofmxd0JafVJNjDz12DjyKEpCdqC0sTabVfLaGu6C3NQTnjchJNXJhTF8Bt9c6d1W
ISDESfmHtDnztMW+Y/y+juU/hFwK9w13do1h0HQvqdUrskh+a7rZv4nUt9Badle6
oZtSzXmDM+5PVqU2LQ6RIr0eZ2SoIMBv4PnsykerAoUwRUH4z4gkQi0rU3r4wVta
6kDfo9H1tNd5s16Afy4SYE06+VsJ9fpr1Q4jKEHbNhankPgpvs0CQUMyU1A8HBn0
5eqmkIRGAihzdKJzUktiPgYAtg5sC+T1owxmLuzirbEzFQ1UcgRLDzNG1UFeizdy
0sB5AgkCDEZm5g/ljKo0pPuGEZHcWXXAJTc4N1cTGZVms9e12uztFUgs2t+4e42t
811CsmDm2+2Dgs6TPzGkv4/9yNSKtoZWE70fotPsAtz0Lh4e3sDOAky3ZssjchL
LdiKUVpTFG07x+hQqewYMXLNushBVDHdxSYy1SYCRRh+K/yzgIkjZv+rtAIfL8tp
ZA4yVEMYXpsBNj4477Qzhx1ZrBhC3DQrjuq0GqKmeWd5fsF87efpXwabHgd0wE0J
vqDodfstqnuEDGPPmGK8HsrEGBC/B4n5+VhHD7Ew51000Js3xcux8DVjtnF8evet
AalNDVNZCxs+gntG0LZZ7dBYw20TDQ61cWVIKek9UHZFDeG50zdfFcSm2kURDhv
ngqFrEkd0za0HiIZarV74y3G3wZyzXobjp+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-----
```

```
xUkEZ3SfgBuhDibMGc69QTyZKYr3R7MmaQ0ZuU0Bwg82JVcL+NGHswA4zWTCi+mw
P/WoL5x2SDW3bNe2kpcypEWdTapexJdgWxDLzS5QUUMgdXNlciAoVGVzdCBLZXkp
IDxwcWMtdGVzdC1rZX1AZXhhbXBsZS5jb20+wsAABBMbCAB2BYJndIWAAsJBwmQ
cQL/7Tuc8S01FAAAAAAHAQAQc2FsdeBub3RhdGlvbNub3BlbnBncGpzLm9yZ+U1
WyqYGQo/YJguDbFro1cCFQgCFgACGQECmWCHgkWIQQ0L12y3jRSFcss1E9xAv/t
05zxLQUnCQIHAgAAiv81HEErhisNla+h8zV+vQ9HbCb5/ukgpBG527xzg2ULCaTJ
s/DvNGl/cC+EhWQ8Bk1+dKSr9fwFBmxb3fKxTEYEx8RpBGd0hYAjsIfqoDHR3VUD
76sj9JP+04jzHeAhTXnoPF3N7Cs281UB+Awo6DCHkI8GuMzoPE4B0suYu1RyWZL7
xZTGtTqua8iSHLROqLppdL7u0M5IUafYaacURmnGARVgK6Fv1jpMVX33rAn3yzAV
2STmln8wxhRJ2Qo10Ss+m4L2hyt74h0a05D9M8Iyl2J+w8G54jmcaRxmNoB10nes
M052o7T1wcZjwKJ2po1Uw8SNqoqAKUBnu5wA87MfJ699igCog2mT8De1W7VA5V4m
hWkk3IaGUG+Yahrox3Kx1Vgeeg3d9grjNZAHCMJEt8wFKmH+Ca8GNljDAE0GQRDs
FzZz0Lg7Gx/96Wuv2gNktLCgPHS+ZHn3J6pXe5k1pWA8oFi9uLkj2JHyeqG7x1Kv
K3MQfB4RjJbBIE5GKkdQ0xLA+I6vvr5wBm4li27Xps81NwvWsmHlU0bvOC14Bwdc
p7gqQ0t6JX0qs18jW8Du5l08FgTYBT3qHEwj9BezKqVCUqfXG7bR+DoN+CR4kxZx
Wa/EhXmvqhXJG1lP2G+QQFSS2Zn6SFxf580aMswI1jEPu4RjbEK698d8JiFuKXUA
sH1MfGdF5aXw5rUF4wYIBA9yUjsukD5dhGdPRxeD4hdCSiZjKTEFdDnSZwMTiSx8
AFE04w2jR80KCiN+g8TtBzYq10TAARs29D0thFauMr9dkYfBFAXdIFgCY19w1Rpw
g6QwpWJl+lUTc6+QiXTq+qRjQq4zIHv3KBf3y8PM9VsWhISCqrbrRXlqYlRAREx
Sg0eqA8pIm1n0WdpWpRDNmNERSRDy8ksBpjEskLu0n2/syUrGz8IKipIgwX/KURs
UQD0dkWoa2gboXlf7CsD+oVemcK3YWPoa0G2WVHlLCDrNr/Yl86e120PeDDmbKKB
xY9xSwF/sZu5K3/mGYBwUmZdfGty1n0exsr0agYZSkEjBkRCWYJYqi+BswC1Wxr6
1kpYxL6aK5HyCMvoGAa8BbIyp4ZXKXFn61KoW8UtUzUcVcZ7cnD6KwQDCgvt8zk1
mbraF6fCZx18gSgKJ6EqDBc8xM91jItq5rAonI60yZ1pAGHNp0ucMwD2h5INVcpG
5Svbcbgp8g4Nhb2YC6SbGsrMYg7r56vq4V+PAWToLjJbRZZYg86SDMnN2B7vtGIZ
7EzerET0qs5FIXyENGku5MB/dswa+0qDZZd4SvIAx4QZBMD0btXIFY0VZVGsKdf
l2aqQrz9dFzWGBWdukVEK1fupVeqNLSRGrUnEUtuM0+duXgr+R9opk96lAIdyiar
Bgg1wnoE98KrWbg3VQoxpkWisioEQZlnx6h84WUzoCDmtiN0SwGyOR0BekNxAy3
aA3bgX1hUBk4pH10lEK7M2w9EiVXu23Ka0dBrGJPoIgcBcbAQyC34CeptLxHfLJK
1jYkt8JlEM29EUptHk5mm4ACbMi6hSaKY2zhDp2NGAXBGTW8DZDdHhWIZtfDgJc
9cExwJ1Y+Q5j0khsAodehgXFEmkJJ8diLIEr8R7aoE/BRIGgs1/P9T0oSziAukur
022b9VpaxFmAw5VKwr1p+LGS05NNk8pHNDH08Z1vq2ucB6XUJZP4+KPae2VsP3sz
X0t9s+Q8MgD8dFKGx/K6MnUo8d4SiSN6xwZrRTOI8isx7mKUottWlFnIp6AbcIcW
v2muZAinRVJ+Q0F+0tPZ+U1FXff0TOQboC01StCNTWQH9VssBXnVyzpmke1DStd3
cX17xiULVi0u5cKqBBgbCABgBYJndIWACZBxAv/t05zxL TUUAAAAAAAcABBzYwX0
QG5vdGF0aW9ucy5vcGVucGdwanMub3JngVWn5tMqxzNf8aAp1434UAKbDBYhBDQu
XblEnFIVyyyUT3EC/+07nPEtAADn/QwnUsJ2e8w0M1CRL7Ufyfta21hApsSrb/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-----
```

```
xiYEZ3SFgBuhDibMgc69QTyZKYr3R7MMAQ0ZuU0Bwg82JVcL+NGHs80uUFFDIHVZ
ZXIgfKFRlc3QgS2V5KSA8cHFjLXRlc3Qta2V5QGV4YW1wbGUuY29tPsLAAAQTGwgA
dgWCZ3SFgAMLCQcJkHEC/+07nPEtNRQAAAAABwAEHNhbHRAbm90YXRpb25zLm9w
ZW5wZ3Bqcy5vcmlJv5qmBkKP2CYLg2xa6JXAhUIAhYAAhkBApsDAh4JFiEENC5d
st40UhXLLJRPcQL/7Tuc8S0FJwkCBwIAAIr/NRxBkYYrDZWvofM1fr0PR2wm+f7p
IKQRudu8c4NlCwmkybPw7zRpf3AvhIVkPAZNfnSkq/X8BQZsW935MUxGBM7EBgRn
dIWAi7CH6qAx691VA++rI/ST/tOI8x3gIU156DxdzewrNvNVAfgMK0gwh5CPBrjM
6Dx0ATrLmLtUc1mS+8WUxrU6rmvIkhy0aKi6aXS+7tD0SFGn2GmnFEZpxgEVYCuh
b5Y6TFV996wJ98swFdkkzJZ/MMYUSdkKJdErPpuC9ocre+IdGtOQ/TPCmpdifsPB
ueI5nGkcZjaAZTp3rDN0dq005cHGy8CidqaNVMPejaqKgClAZ7ucAPozHyevfYoA
qINpk/A3tVu1Q0VeJoVpJNyGh1BvmGoa6MdysdVYHnoN3fYK4zWQBwjCRLfMBSph
/gmvBjZYwwBDhkKw7Bc2c9C40xsf/e1rr9oDZLSwoDx0vmR59yeqV3uZJaVgPKBY
vbi5I9iR8nqhu8dSrytzEBW+EYwWsbORipHUNMSwPi0r8K+cAZuJYtu16bPNTcL
8Eph5VNG7zgeAcHXKe4KkNLeiV9KrNfI1vA7uZdPBYE2AU96hxMI/QXsyq1Q1Kn
1xu20fg6DfgkeJMWcVmvxIV5r6ocSRpZT9hvkEBUktmZ+khV3+fDmjLMCNyxD7uE
Y2xCuvfHfCYhbi11ALB9THxnReW180a1BeMGCAQPcLI7LpA+XYRnT0cXg+IXQkom
YyxXBQ50mcDE4ksfABRNOMNo0fdigojfoPE7Qc2KtdEwAEbnVQ9LYRQLjK/XZGB
WxQF3SBYAmJfcNUacIOkMKViZfpVE30vkI106vqkY0KuMyB79ygX98vDzPvFoSE
gq27UV5akMpUqERMUoNHqgPKSJtZ9FnaVqUQzZjREbEQ8vJLAaYxLJC7jp9v7M1
Kxs/CCoqSIFsfylEbFEaznZFqGtoG6F5X+wrA/qFXpnCt2Fj6GtBt11R5Swg6za/
2Jf0ntdtD3gw5myigcWPCUsBf7GbuSt/5hmAcFJmXXxrcTznsbK9GoGGUpBIwZE
QlmcWKovgbMApVsa+tZKwMS+miuR8gjL6BgGvAWyMqeGVylxZ+tSqFvFLVM1HFXG
e3Jw+isEAwoL7fM5JZm62henwmcdfIEoCiehKgwXPMPdYyLauawKJy0jsmdaQBh
zadLnDMA9oeSDVXKRuUr23G4KfIODYw9mAukmxrKzGI06+er6uFfjwFk6JYyW0WW
WIPOkgzJzdge77RiGexM3qxEzqrORSF8hDRpLuTaf3bMGvtKg2WSXeEryAMeEGQT
A9G7VyBWD1WVRrCg35dmqkK8/XRc1hgVnbpFRcT7qVXqjS0kRq7pxFLbjNPnb14
K/kfaKZPepQCHcomqwYIJC6BPfCq1m4N1UKMaZForIjhEGZZ8eof0F1M6Ag5rYj
TksBsJKdAXpDccAMt2gn24F9YVAZOKR9TPRCuzNsPRI1V7ttymtHQaxiT6CIHAXG
wEMgt+AnqbsR83yyStY2JLfcZRDnVRfKbYRyuZpuAAmzIuoUmimNs4Q6djRgFwRk
1vA2Q3R4ViGbX3YIwvXBMcCdWPkOYzpiUgKHxOYFxrJpCSfHYiyBK/Ee2qBPwUSB
oLJfz/UzqEs4gLPkldNtm/VaWsRZgMOVSSedafixkjuTTZPKRzQxzvGdb6trnAe1
1CWT+Pij2nt1bD97M1zrfbPkPDLcggQYgwgAYAWCZ3SFgAmQcQL/7Tuc8S01FAAA
AAAAHAAQc2FsdEub3RhdGlvbnMub3BlbnBncGpzLm9yZ4FVp+bTKsczX/GgKZeN
+FACmwwWIQQ0L12y3jRSFcss1E9xAv/t05zxLQAA5/0MJ1LCdnvMDjNqKS+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+3ymnTqLhkv3YqdBtiC81+PL05YPCymPZaWf0ajq+4sM
dnBfLJ3BPrsJw03sVHIBh+L3qo1G0C1iIzGKxIPz9F5RBSvDdSIwCNg9hnfZjpMu
kcmceYISpWjJR+LeAieyY0TZ+Qhx71jYQ2svfpwW+XAw03uMpZkvqk0JmYr8uUca
i8x2j4G6EUXuu9NswSPpirCqU60ZVdpoHUZusFyRZz89V10fQr9hrnJOGw0VtPGz
SMEulSosvnnvK2BQ2ccJVNn0s/mk+fttQLpBBsKCH0UK8norIXt5ahxdj9sSwBTf
q6cPlHz1o90nFSuewFkapA4PuLxhf4Yy8ZTsC9LUZLiMf8MrMza7gbtnEbBzW3bx
y6QD6I+PneJl/8M5a7ECr1FuR2p3Kyt6MTiY+6sxJ1G0VhpNS24i0/LRxAUe8DRi
tFC46oEQFBy98SIWt3JoJKHcjZLKTjRwfYhZDiUnBkoM6nYaAZdItcFsBDG3IV
1UstcmfcCugJyWi8V8XHVKdhWe3bWc1WrhieDCVpfSBD2NnRMGG+g90WtHcwhntf
n/mwyR/GLG+gRc16I5hPm841S34+/txx745yDXdTz/szZAqQw0VW47CwF17A3wdw
cX1UDnUnf7/1lFKqg8Zn/GXGIEreo5q/83Ib7dehm50APhtaKnQzoPbPPu21lw+8
/3gisYxQbmrphEpU2KWWWrG5g8P3JG/D9w1HwDhXPCdNFB7wthQbaDQ1WnN3W1V
BEtWMOqLTIovjrxHbn5judqLYQQgZPbMguzj5JXrQM7wVu4o0edv967oI6ZRBg4y
BtwlXWF3cgMvvAFfH8fXGXAtJw5Gz4/gxzan1q1Jc0m6Akgp55J37L1PeXIKHiyX
W/J8qEbK0XgSSa5VduPfnP7AzrLWtyT5B9lqPszmR7euLXvb+tCuNa/G/lDceJ08
6MKJVXyYnk2qpuNWV1NP1CUH583LH2xgJ1YNk6U7ID4opcBMJuVM+MTA7cmL0bE
Fdoa2TvJu5rpyrnqedHPNgE98P95kZJ/UtaIqJL+zzGkD5rip70DJPuQ6CkVwX1o
pTx2EKwi3c8H5QZtZUkLYeh8x/1LidZeLBdMLut1Lc7BmD0j0wU0PrwaSLsWAYmW
L16/cY9xPwIqmC8nST8rH94QoBl5eFkm3HrDYjJZrNybK0RKP5oLKG8QoU02kXyW
9TfKNp1K0YcFGTgKcTK6luDSM2cCdw1PdspwCRLPX7L7LZYaK8nEFAFD6A18ZC45
meBQgY4SuDlucygbFAHitrXLv4ukBDNRFxe+2dVzig5ryHZj97H5vp89aYH1W3gh
GS/k57744ziY/ACTz8cRxVKgM1oTYjDsNKvmM2J6ij7vRxuMBvM/k07g+0jD2hPV
eWyIS1VKeT1LG7sRBd+GVQ9jHKpP/7YonXYUr0kpCdG/5Y0X6Doo3V1VTRi00QmC
t8716eEJLd7ivorFYFELY5e0EUcjmNLSwEgBr2kPm1Mkn8RS8mCNT188nXgTzZk7
jZ1rurNkkqQM53xMaLmQImS+N20GPoa2RdHW+R/veP7LugL07gozMi/zz9+kcd0Y
wPahWnYsZ4uHg/zbGFMiH/iwQ04nv58gOLJfJafGarwotFvBIfl4Nd6071mVJTc0
OjVhhisWL5WDIC82+DDu0yDLH/huzY4W7/ks3Hn/UpEwzq+A1/bY3MbQomew5hTI
99z/Ieu1fiT8/0P0ofN3lvMvTzeGuMMsBiMFp2nbCEHrWwCN9uaE3eAbj3E00tAM
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//pP1fmF7WG1EjlejDztYnd2xigU30kc86MsGI+wTe
R01LNVy4L03KG04LC5S7Ahh1ADVuNqp1gbBCjHeiWsMeBIXfwUYH35+X0TB6P++e
pA/flGSeFj2F/ubBL3Xo5r70GeOD55hijwNjwKj9tEhTkIOa0LFaNwJb1CsTTW/Y
3rRQB1SzvyPk9Qf/iyN5t17/89j/piKJXu1gLXnLU0NBYesqA+gSV/0FhsYHambvL
ucx5AE6GUJzsFxdjCwVR7/7zdCU6jsfvPSeZry+7CSuTAFYqrh3x8+62Kio0vcoH
irJrIRQsQOo6ygvmlJS5vQUF71wNimpXzTjWjqQBuAdwSuYPFVDPd4xIOgmT/oJt
MCA8UOKxdoANh+XnjqZAsL5EjTPf3UmGLhbNj46XssvtUSuW4qvgFVoR0FN0EBrt
9Tyt7fDzdZkD+RkyLK13igSLXVzB40fn9E6dddurICZkfNtQofV/t+qJUmc0qQKs
cFrwF03xt4UrgLFH8SNwJ9Rt6tLaahUD2pY/YNkSSC1+HFPbFSsXTcnf0t5vFEqG
UVmP5TRVX36qE5EqRt4zZwBzv+Ph0lMWQueKXscHGz6+cFR76nktsiOFTlwYtudf
fCrvf+hXuGn0mKk3q1TkmF5v0t+NNiqXt+nzJ7bqdkH3kAQ2qG9UH10Ey1X7ykI4
MKqjNXp3ovwx20hUYrPMRo/XXz7s8ZiqX5q544kpjwxU0n9mvWYEjr3hePtAK4YD
6WRtqukyuxSPvonhdyq+x/awcg2AQe5tPH+eMTt/cm1yBdzgvbNxCy5+87TQJhJ
Ia425biPs4kZku1NP2pN/kVeT8Me56zhdaJF20wcUG0SjBkgo/F4WyE5bYK7gM5G
/40hnmYIGWitGLoQmN3jyEIceSJsLazJ503i08ZSRjNwMN6SCOTFn0PMaJAHwa15
jshrrUHJpZri/4Lv8cX1/A50MULSyKNX3PVk6aZPtzXD0m1MCC0M1vIboFvD1qEx
feSnmA+xVxjVsA76C0cqQ85XLM8KIqzJXLQnG+4ebsa10rYreo/1FF1RouY42uS
VY+IZqi3Z2iQou9DKdYGWQAGjB1rdeWe/J6R9BK5n9E5KZ2z9H1JngW3FXX7yxxm
ZogvoGgEwnKuxfj138sgtQh8bhXOXs9roNm8uDwuk1zwd9S0x6vcl9h6TBaLPw3g
mwYrawlUONtMBjbU2KGmKqx94V0yMIK1FEA9LLB4akW04Gnh/qUQbq6Tptb6zZQL
w3GQv4Vz0EwSg84Vz7dQWw3hg4/vRSL+TQ1KH5hS2CuCcpVjJvC9hpatnd4DRsVi
/bLy1BR02VJXFyHERR+gVvN7xo+bAnhC6aasDHH+hqyNagwQBS1upcCr7p+s672W
7GS7IVAiLvXcsxS3A5xpkmcMb/+2BY34HKw2MsakDJlWY7zYcqehTqkseHNrarj3
AhJ5u1RYFJJWTxn3J8F55qP7QtIje2ykrm06wwwV1Yfd7DTzIKELZT9Qjyh9nEQ
en1NwJgVGPNS87iYII1jS7fP8K6YyfknYDKNzDjPCJEKL7g40sBjAgkCDJ38fP5P
GQm1f6F96z1/4ACgraWthTKdhMHXmXRVYx03vgFpnQwEMxje1zZBkaN355PqAYU5
1NuIJCocAghd1k5ygIWF9XGsACGfgvmxCSMV+iMm4E4nI/j6IuJndr3pXrUwo+gS
g2Akz4b/QFZ46wJbFXGGzEo2rGmpXLoyc81cIicU7k1Ro0g0jafd44Y0z21x7ZYI
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/76Ej0RZbGScxv3ZX0BMKhZTrhqxuLcI
G/61UbWg/25J/AGibQkF/oUCH/u375ep8gZUVcdIHwBXuQuAbhDcL0WyN66Yv7qg
PmjYU37ZZkm3bTfACG49RrSbGQcVpgMkwC2pS18FfB5Y4oNfHtldLKF24aqmqy0
kQw3w/vET2PMN05dgPwNNRt0kDZrBBjZFPXtNnZaG0K5Tw4K1QE1Q7UMRYPRi9Qa
LflXBi4ACdSK4Q07vGHCLkZBxMdy38sth+34TGrMzbqCSk+gJeWwfx66R9lPrr22
YgWAL7dJSRasJaM529x4PU48VKqrz1P0sUowgb5k/4/kex+Gwtc5ZI5ChpjnzpVQ
G+AkY7K1giJ5kTKa3xY7yDVuui9ibXbNULTJl5MUoBY+f9fsR0edBLzOM3Z4Mkt0
P4utzW/wG5YxqMbcN0z6yrY0326BUmeMgybJ/PTufig4+F6dBt1/yFZD90dQXKqu
5Ne3K9c1Qa4d7cNc71C4XRZYGC4vKMR1gNas2WoR0YJh4eaKeppd0aQNgMPZl0Rt
YotoQqt4YGESq2MQo+GWYI1EpcRU4euYInRudx0j6LTLu5DowqHBnSLIQQ4sqzXb
FxFpSD5eqtevtimpUJCCGJkvTz7ZeRy7zpc4d0ZvZV0Hq0Y15aGxm2DgUiHdBRuw
UzNgBwrH9Ez39zmDgyY546QzVbHzBETlC7quf1eXSZQ1ELEPF LX286CBbnjfa0Jc
ZwUU99Yv2ce5weezcTAd/TenAnN43iQfyfvknc6rZ18WlugzTm+hrmjvI1ipJAs9
5Jb0ZoH/d35+510d+LtfK7YBZ06C2U/TvMl6b7RMp/1MuMGgufAnKpX041B84Y0d
uebw1cjb4auSr521SEz7j7Lj+vx1t17Jb14HFLFHknbHXcQCY6if7NAKPIcQEo7
F/Abe1MCGdWs1t205jiCaqEAFseo+vbDvNfpGtrg+vu9qSVPka630+iApN1RqhbL
ml6QpicpfKqbTfj064M4n93uMaj9Q0/qhUpM/btWuofA/OnGTNHJfJhjt3AyYPNe
KfUMyd4RG+TlzEAvjnDn0o1TiRthYjHPsajQU6IpC5FhTISLFmp/mfyx0khUnGav
agz1l90YJeF/sDT6wrRuI2Pp5CIhrcw99VZLzb7DCb+H3e2urCeJMXn3b02F225Y
Gqp3uZEuqas4Hp/GylygKFEVMvTzGRi4zJp/dUGs09P2JKhbuhxu+BYxBNUrdWNK
2fU+5+eD+rG8R1ZMwNg/j0VUTt8YyWjkuNaqoPRnR0IzVdTHQzDIjofruJ03lu4B
BHUj14EFJC3fyv/YkgUkYNSqEMjUyU51u4AijMRahTgPDSJ3NTg2Y08fivA67SjI
mEjYdwmp8zwS5a4ZyJa5qLVi1tFwPAUj2ojE6orS9CqzAaUktLNI3duhThTwlDnv
bCZDnfX0bE0nyhiqqspVKFKtoL4Q5u1FNU0zSYWt4ReDZEEdsGkZ5Uv0C0ItIEwh
94pj6BD15LLRJH3EUXKsK8jUtKrksk9RtY+3HGjI02x83ldVCxx/ur9sNZhmewZG
loxQaIsvZsQkNFz0ACn0mJ5pv5p4SzByua0E1yc10SeMVJfRLJhMRhyeJBih05QC
ofZ9DJOWRbKbyoM2BHLXmZAAhnGTw4LDe54/6E49Unoc5C11K6yIuKJ33ETGq22k
uSyK8z4gmx057B/owmR56BmEAJpsWkHVgom0azpSZnSR5d9vpjWnSdozI6F105H
G11kt2JtkUK7JFRu1KQBq+11KaSb20U0BIGN9bTGsfXQtXpBxE/3RKwu4+eYxFA
x50fWo3p+ZLKuo8ecpJH+bX/YvqvudFu5tWsZzG0SYm4rSiL5C6vhyJIKReiun
64sQ6Ndp0YnYrfaJ0h6eQfhCdfcK/hRzErG0SYq3iy3KKr1aXac1yRb5l2uPTmWQ
ZQwVCNPtWHB1mK5yFr50A5Yw0yhqA2kxhbG4V0Sa5Ts1TnXzI0Ug501Mi+zB4CXL
+mFt4nXBR2Xr10S5A9cp5w39KshZL+LGVvULoF33gEn8CEmuImHRbTDub0rpKnW4
p40p0vvpf1/AnB2oHwK4+xrCvPBmgY2JZbWkmZ08SBTylyxWw31tIWq19tk7cj99
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-----END PGP PRIVATE KEY BLOCK-----
```

A.3.2. Transferable Public Key

Here is the corresponding Transferable Public Key for [Appendix A.3.1](#) consisting of:

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

```
-----BEGIN PGP PUBLIC KEY BLOCK-----
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sXQxRvrqPiTjbcSbG8cstYpbS7qCvpV3Rd0Uao7iX2kRjW3zMpMKtJ44RDn/NRmN
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```

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9ZyW2WcdNP+ccGv+xpu13FIZ2s1T1MSGcdQ+LmHcX/BBfkY8eqKU7o2FURiNXgtq
Rfc1b8naACMx0TpbA5e60dwhfJvgLURSmLrPgsAKV2JopLrNFBhMf52jpgAAAAAA
AAAAAAAAAAAAABA8TGSIP
-----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
adee68618b302d4bfd7ae3d432bc63a1c1ad7f5fd6e7fd7bdebb0d0b14a5c9a.

```

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

wcPtBiEGfa6Pv0IwImBxZ69yoALndODKN5oteuBy0E4ej94yZeQju8Doo+46V6wC
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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-----

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

```

A.4.3. Encrypted and Signed Message

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

- A v6 PKESK
- A v2 SEIPD

The hex-encoded mlkemKeyShare input to multiKeyCombine is
f18f161e617b8ce5968f109aadea1e7e1511d10165768d36127ba913c00637d2.

The hex-encoded ecdhKeyShare input to multiKeyCombine is
732860c8114ae84a964664b1f607785d11bc7d24d5324510adad89bd52db7ee0df99
82ad0d1669bdd05556330c86f2dae9e2edea42e05bc5.

The hex-encoded output of multiKeyCombine is
ef1e32906f67d39bc800d90cabb0033c77ca6dce8ffca3e96d9c7348e2e8c16e.

The hex-encoded session key is

0588ce40b038aac353d1cf8c67a674b412985105794821013ef154f786c4d89d.

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

```

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6HG1tI7IDmBdq1TrqjFqW9LE2SyYzZ0Y5UmdGu2x62tdTu3WaYolfIN/6M6zzAfn
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```

zdj1qdDFcPsIM6Ga6hSTiK3aMQ6AvUpGkQrJidy4GVwsULLEHpHisVJEmyz73SQ4
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xrXdH7Rb/saIsGT25bL65cv1F0cCEEQedj3zD/U9Dgrn1+0t+kNhCc1FY773/oh1
GyhKY01KCFeEcBM+IHRAZGMNVL1+e+ePcaBqBdI2VPsi6B2NNN/NCyAhmB0mVIVu
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LgXt75pZa6doh9RZ1Laic+ay14JZGT0IbRSPQn92AHS7HD5YAsJrwnev2L2N1z
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mwis3HBoIak03z/uXE4W1zvCtoLaeAt6BhFbGJsMjRK/RbknVphwLTKBZWf1fw0Q
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RndrBzSIqzm4f89faqCumpLGIHwg0K5IZvgKA22lwhxEMbF4hM6AcpL6VVGt/U8a
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XGYbHFYosZVIIxvSJLyodIhA/1/qnIw3yIpcj+ajKSDRgB5LsACnv7tbNTnk+FN
uAk2ky4ULBquYvDAfK1P/ctTuvXKxFGOLFjs2SWHM7oE6uT5ZRjFcTuFGCh4Keto
8NY81m3CNR1bowG/Zb7BRtGVmp1QyH+nWWHqN4qa4UWxLt1fVhBd4ydsf952sd
2+UvVp0jaPMtH60a/oArv8EF7qSGtJ9SCe04we+pgVyCnVG/HgdidKjkpuW15kFe
revN2ps8CB6HdPS3pu3cbIUYFB1kq/bGzN8jRGW4e109C3J8u16sJAdEKiI3CyGD
LovztLij3S1Fa8xhCzAwsQY5ap+3MveW3ZZfRkQUmHasLfsbUqR6o+KyYzBdMrq7
r9d0/yldgvyxcbQA=
-----END PGP MESSAGE-----

```

A.4.4. Detached Signature

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

- A v6 signature packet

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

```

wtIdBgEfDgAAACKfGmgR5rQioQYNeovhQQzWju1IRatIe0tM+uzY660aEWaoQjBJ
kgDuIAAAAADCOSDu4urY000J6HbRjFwnZa1NdpSNQfQ0qTf06HjXPyk03VR/CDj0
s1+mEY/1PndKVXet/BQLMiMS3F+doZtfMit1bYR6Xb1DreGWYPyENTpNh23J5zyQ
vL13gAPfnSIn8IDmfPuRDo0pJL1bm5hmNsw8HLilzKjrh7Hw60wcrpqn7gSb+nBT
v2d5g16W1ozEFeMJAGfdih9D1osLS+mLZrrJfGqYvwngggp3LdKS9I0SB7T8TFnj
OH1jUrhrNsnyLZP+kUd44ZDezv91syHFg63LkRce++YhzTjEhD+7iowV/Gje7ybr
+HpQkf0f8Bdw7LoBNGitxnZIdAedvjsYx+VS4QwXcw0wI9nt0o/fVrGhEW7vQ/zY
PKBS2x6anq4KH/577jkVgKjSicHi1VCNxxwn6ebeLhrHy4BvFx7AGL9NJ6taFxi3
ElvVqTDZvsVt2j2dFmdvBF9QmkgLP2xK/2MuI3Nj1JYq6pemIr0XUyhN1V1q1CNK
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```

fsyd+TYu2yMCox53oeEpoIQmnoruMmkh+687cX70eA20nMDPMKWRaNZDLeXCBBiB
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S5fLeK7/woM17xZx/17BriqlbuMnQh5ULuNuVg3dXkV3/h0/3szIu6tKmPHJN5byZ
ZQWT39jYDtdjYPTGKaOPLbH2dEaCwbZV/2u/W7kcSAf9PQe8TdVdZCGbGuwrOERR
j/H26XJ0n1s0lfektzG0peRv9okjkrxYZ1m511czi9d50f57ML0yqURpKucuYt6
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isjS2T18vXq9va00P80GaoVbpga47DE2WhM536Q4PIlczjvNBysZ5bXZMbYY8u7A
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rGboB8Yrk+H31WJKRfdjgct4cQfshxjyRPZrlxliECbyIq3xV2dFt2dOqAo/pZGC
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RkRtj2tQ9a8A2daeheG1DERfcrGwZ6ggakBzAFGfGKE0ee9J+CikHIJg+JnLVx+0
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sXXysyt+ytrPAYCVx056RTzhEtw29MZPqL/XwoQs/TEBxcKh+8KTLwSNQ2uyMRm
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```

hpQkw80koTPD1SRMhbbqZXC5A0zErifIe1065cEuLvIV/5V0z5fEuHMyskLhYSxo
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dLxj8Qvr/ISwFgshE681CNaEfpeinK4eKwICYR5JawFXaETy2QwSBR7x2ZcRuQn
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RC1icggF7/Hzy5+dUyWnUoeTxhloS5ZhAI20FmjxiuALYp7YxwM3xGgYqTTWXIZ+
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SKA+T5F+VMb9zCV3uDg4fv0d440j2qVWCAX47We9Fsxmn4wiPQ9ntHTQZSSLyJZh
smEimgomUtoAzdo/P+sco3PlrB154nXnW42jUe/Z1EdNh27kpP0mQ6hL/X19HDZT
5ZYoSzrk9dZACNTi07G22QPeyRu7URXWwwwXU0YZwVkZnWt1UJbdAa9AbP7oUB11+
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LB+g+Hp84n010TLfM3zdkkjzr15YYtqQPHNKKeyQk7iry0/jtp/9AJPpQbvP0Zwy
frQB1b2w6uPjBUUz91bWkoiEXRGwksY+tbN/953iW6eGQ63qVrnLF85wReh8FGH
FgskV0GbeAnHyqfsgQ6i0cjyjuP64aYmSfxR+VNLmrr9sPoUp6bXwTpHutADm0LH
r1hMRLQoSfL3Q6QBzd6soFIq9iD/xbw60m5UZYqUx6aWfBQ487jImHkpuU4K1Dnow
pYtMeFneHRTT39we3xVJT1Wihdfrwufsj1uFzvBzsU0S96/W2GH2n0SATtn5J71g
8Q67MXX+Y8kqkTov37bkEzAttu73gcUvY60SQAuY6v8yZy0ayTOXFWXLqFRkK1R2
zd0hLF6Hts3q8waR15quv8/U6+0NDxMn0jxETbdGXxaAgYehBDJsk5SpxeZrer7s
Bw4/Xqbj8PgAAAAAAAAAAAAAAAAAAAAAAAAABQ0XHycvMzs=
-----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-----
```

```
xWsGZ3SfgCAAAAAGQPDNHNhyzJ2PPw0ek0AW0by2ye1py7HxW00F6n3NhroAv0y3
```

AGbhH5pe6P0hMyR8Vdv1/nHg2w6mvDMXHng+t1A8M0c2HLMnY8/DR6TQBbRvLbJ
6WnLsfFbQ4Xqfc2GusLeTwYfIAwAAABABYJndIWAawsJBwMVDAGCFgACmwMCHgki
oQbu1NE/w2x45IJ2qTizM5xN0jD9X29cW4LGPVwLXjYdkgUnCQIHAgAAAAcNJRAn
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-----END PGP PRIVATE KEY BLOCK-----
```

A.5.2. Transferable Public Key

Here is the corresponding Transferable Public Key for [Appendix A.5.1](#) consisting of:

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

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

A.5.3. Encrypted and Signed Message

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

- A v6 PKESK
- A v2 SEIPD

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

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

The hex-encoded output of `multiKeyCombine` is
ae8ab57801911c04c7b4c2a2f665cf8d8a8188f948c2a65e39c292d9b1d86e32.

The hex-encoded session key is
e87567cad8fee5738f92090feed009d8af95437fa664f94da98776d966bbbc52.

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

```
wcPtBiEGPodFpLtIh3ng8ySA+iP40L/YwvSdf3TpV+HC/8LvS/wjluPo1tUoCKbW
weuHjD9Wqa+CrC/TgHJTyTTWkNa0e2xdCyF1k9TgeGmThknayCV6z17cbL+8ZfCu
it8dD/1X671JU76aZEJy4vqPj0RoqZq0z0x4pekBDIVv0a4tHy1H7yrccirnnsN1
```

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

```

A.5.4. Detached Signature

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

- A v6 signature packet

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

```

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

```

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

A.6.1. Transferable Secret Key

Here is a Transferable Secret Key consisting of:

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

The primary key has the fingerprint

```
d54e0307021169f7b88beb2b76e3aad0e114be1a8f982d74dba9ca51d03537f4.
```

The subkey has the fingerprint

```
d8875664256c382dd7f3a5ce05021088922811f5d0b1a1f8c7769944a51b7002.
```

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

```

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

```

A.6.2. Transferable Public Key

Here is the corresponding Transferable Public Key for [Appendix A.6.1](#) consisting of:

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

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

A.6.3. Detached Signature

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

- A v6 signature packet

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

```
wv8AAEMIBgEhCAAAACKFgmgr5roioQbVTgMHAhFp97iL6yt246rQ4RS+Go+YLXTb
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-----END PGP SIGNATURE-----

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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

72ffff84863aeba67f0d1d7691173247dd427533b9d7ee76011c6f77f2ce9fa7a.

The subkey has the fingerprint

570a5bbab93169876a8240da35a1ada7ba8a640aabe3ab467c797214844df15f.

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

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g u a e A C x 5 Y e e 4 0 L 5 t K u t 9 m / k 8 f A Y X R 4 b 4 E M R 5 Y + 8 / E E I q y b N b q k R d 5 0 A g w D I X k 6 P m
P h + J p 5 x m k I v W C W 1 k W D y W M G b R U L x W m a T q I P K S u l h 8 n B u r G j D 4 b q N 6 W r u u F 7 i U E C I F
U j m s 2 6 u B c x i M 2 W m z y 8 d w M l x y w I c l e j d i v t t K E I L 1 N k p K E d Y b 3 b j X 2 u Y S g V 7 0 o N X C
M J r F J + h W R 5 W D w 8 M Z 6 e n o G R I P i 7 6 x r T 4 h W q o g a n G w S 7 T r b Y l U J O U 5 c F R J s n 9 o f F o y
G e K 0 N z 2 x u P a 6 Y k T 6 M 1 6 B Z 1 M 5 s j 0 1 F R 6 7 R Z 9 j b u E Q n X p + 1 9 I b G N R Q 9 M 1 C Y L i X 0 2 S 1
z j 7 v r c P p J r L A k T v S w X g B s S b P i 2 i i m U r W F m T 2 6 Y g Y P b T D i d f 0 c V t N Z h D Y Z b 7 p A K w w
U p e a W v P / o s L o g F L p P U T 3 8 + 2 B W o D k f K W k v U N + x q L B D R d Y 0 b j k H z C h B O P M a q V / h J y j
M X q d j 3 e d p R g Q N 6 u o N Q 6 H x U C A N R G A K C d k 7 S k X K 0 k T A R 4 I P b 7 2 N j T X B r L t o P p r 3 Q W 6
u K 5 y C G 1 g f e + L K H k 6 q F 1 8 J l j m o t Q I a P 5 a H H A Q h C H V H + 4 h + m A W e 0 0 2 b T 0 2 8 9 / w / Q s U
I 7 r e c Q t i 4 w J p 9 0 S j L n E a S n I f 6 1 W J p r 4 u c 9 C v 4 e 1 g I G l 8 8 2 o o q j S f H x r I p o 1 l x R T H
o g n h 6 6 Y 6 a J q x U D a v D K 7 8 t b c h 3 9 1 E u e w f y i j X 2 q a s 1 x D a k a q W d P o I t i R H B Q 0 X F w d /
a K K J M h / R 3 R H k j 3 l n T n S s S U 6 7 t r r f S g f / Y D d w Z L F / O R a D g b 1 S t C + 4 m u y l P X S s D o k 9
4 d U P o o U z u 4 M I Y K r + X 6 t 9 8 v 0 M q 8 F h b 5 x G m 7 0 b 0 3 R C t u l / c / U I w y F 1 c W I + u / 3 e m P z Y
u g c 1 u 1 1 n / r r n w r / e C h 2 8 g + K R z 3 H H S n 5 T A c 4 X f X W n / W 0 Z p D T S E C H P 1 p k z s l Z p m a y Y
v 6 1 V 9 4 1 s H r o r 8 Y Z Y t B t W J w G u H s g 9 V w m / B d p N b 7 N n 2 9 S f + a E P A 0 + r A 1 S T a q T G / f m U
+ o 6 I m o 8 T F D / J H b p 1 g V o / d R k a 2 K X b k m b n C K Y o 4 1 J q Z d X G C F j o e Q W F t c f n P l Y z k G 5 t
U v k Y o w y c u e X h S T z 7 4 c 1 r B V L c + Z 1 p 7 x K s S F 7 2 c f Z u L u 7 R Z U e P j 4 G s b 2 y s a T y x T I y
+ k S f 8 G m J 8 p P w U a p W B Y i e d o Z T s f x f G p c D u W j A 8 t i H 5 6 E N T 2 8 K c r J u L 9 B z w Y N 0 t X m v
E z c r B q Y 3 A 0 f w E s t v 1 v V i q 4 h h Z b P w j g l d o X V C y / 1 o m 9 A 9 k k o Z C I Z X 6 g u s i b Q q N x u H
9 a j B B e N I K n T q o 3 P j v r E 5 M 8 2 v 0 c v I + R h G f 3 f 0 i n Q Y 2 t 2 5 f c u L Q + H R u U H n T Y I + Y j g
S v c n b 7 q G 8 7 k 5 U P N S x r n K M z S z 0 d e n 3 R w x g E 7 T y e / w Z v U 9 6 6 p C L j C 5 t k T w Q v q s q b T 9
0 Z 3 E r 1 w j b w P U / 6 1 d P e f 0 z I E O V H c G X 9 t m V K R x A 2 n 3 h D s 7 j C o m m S 3 S 4 C R P 8 q / p g U k W
b v H y t / l 8 0 7 4 s t V L k T c D J v 8 X M 2 Y 6 v u W O S 4 6 m r Q 9 R a c w 2 W 6 T C 7 x Y y 3 o E 0 h e m R x e i P z
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x u 1 q G q p C S E m N r n L E 7 l m Y b H l m f A B T A k c 1 K Q R X f n n c 7 0 8 A m j F g 9 z 6 W 7 + X C g n I s H s V C
u l h 1 1 V 0 P w f 8 V o Y C 1 w c r W c f M W 8 C K Y P Z u P Y 0 K g s X l y b w C f X / X J 5 7 f e n o k H j T f / e s 0
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Z J c W e 1 y F q i m f Z B g i q d A 5 1 0 c 5 / M H 6 e R l 8 V 5 u P d 6 B 6 3 3 2 1 Q p J e x 8 i N L T N I D U n N n e 1 r
/ c u W X z U V h W N N 8 + S L T a s X Y x + 3 u e E j 5 m S W R w J c b f T l c M Y 2 K N i Y j T L 7 6 n + D e a u V L Q q e
X I j q i w Z I Y Q j e T x u 3 b 7 e t i c 3 U D I H R q 4 j B P p b p Q h R U Y J 7 A g 6 + 8 W J r J C w t + R C 8 E Q W e 7
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v v Y o R C 3 C f r i R 9 Z X a C T V w J u 7 l G Q p k / d z u G c 4 0 W i u U 7 b d h / Y o 9 1 r X X c / X k d q a k 6 E Z G
g T o I 6 8 U F Y V D r A u / e Z F x i Q o y e 1 + u x M s 8 W E S j 0 m f p c f h R g a D B R l o K V N S 4 o X o C 2 k Y e e
7 K r 8 T b + k X e A v c f j K k 8 L V V H o G V Q R 0 1 e 3 Y 6 o V I e q B C Z U w F r 0 T x K I m D + A S r g h c j A Y 6 0
I 8 u 4 9 X X g C r 4 m q Y Z q B G E 0 2 s v 6 J c + G s X c G g V L U v l d c t 0 g A A R Q w g T v p r g 6 a c 6 U s W r y v
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k l o 7 N k O r / K K d i g C t Q 0 F / g P l E E E 7 H J X + S K r U C o 1 2 W N 5 w Y N c A p a e w 7 L H V 4 z G 6 h 6 L P K
6 x H C l B q x v Z d M y l P E z e i C m y + G f d h 3 V W I K E H 6 + N H j W u W L i h 0 Q q / 3 w N 4 1 R U K 1 u W v d P 9
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M y J P S G I R 9 + f k 4 5 h v + b Z B s q n L s o v I b a Y e 5 d q w b 0 k i 8 0 N z b s 1 r 0 T 8 K V r p J t V X n o 3 n k
C s z 2 C 0 8 z 4 l G Z D o Z f T b + P V d z e c H 4 t y x m z R v 6 d C T S 5 a d D k 0 w I e q T S u 8 m e / w w G B g h D
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N A n J m g 8 s e W R u U z m v a q K O N 7 V b 6 K b W l U T D q 4 r G i U M l p u 8 M U I q H c + r w e r 0 t + T 1 j A J y 2
n n q v q h P K X 0 H 6 0 0 g c P L G Z N k u Z o q b z S Z 1 m b D W X + n A b a g z z H 1 I w A S 2 I 0 w / l U K R T b e r t
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3 5 Z 4 P d b 0 T s A G 9 n y Y g y V E B m P j a D B 5 t / 8 3 X K 5 m b 0 N g W z d P d f 2 L U t s C 5 j 9 y s V m r + 2 R B
P w / N q m O b M h e q d Z r s F r j p m F s 7 + P j e X U I 9 e P i f Z X D N S O I z o q Z 8 U 7 A d W v K X 1 1 X F F E 8 w
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H Q P z E t 5 9 D e q f v U A d n q 9 6 T D + 0 o g i a z 2 I Q 8 B R n 6 0 G Z Y Q y o j 0 6 h m Y Y D Y y P U O p d 0 g S E G

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

Stephan Ehlen

BSI

Carl-Daniel Hailfinger

BSI

Andreas Huelsing

TU Eindhoven

Authors' Addresses

Stavros Kousidis

BSI

Germany

Email: kousidis.ietf@gmail.com

Johannes Roth

MTG AG

Germany

Email: johannes.roth+ietf@posteo.de

Falko Strenzke

MTG AG

Germany

Email: fstrenzke@cryptosource.de**Aron Wussler**

Proton AG

Switzerland

Email: aron@wussler.it