

Post-Quantum Cryptography in OpenPGP

Пост-квантовая криптография в OpenPGP

Аннотация

В этом документе определяется пост-квантовый алгоритм с открытым ключом в протоколе OpenPGP, расширяющий RFC 9580. С учётом известных угроз для криптографии со стороны квантовых компьютеров это расширение обеспечивает долгосрочную безопасность подписей и шифротекста OpenPGP. В частности, документ определяет шифрование с композитным открытым ключом на основе ML-KEM (ранее CRYSTALS-Kyber) и композитные подписи с открытым ключом на основе ML-DSA (ранее CRYSTALS-Dilithium) в сочетании с криптографией на основе эллиптических кривых (Elliptic Curve Cryptography или ECC) и SLH-DSA (ранее SPHINCS+) в качестве самостоятельной схемы подписи с открытым ключом.

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1. Введение

Протокол OpenPGP [RFC9580] поддерживает различные традиционные алгоритмы с открытым ключом, основанные на проблеме разложения на сомножители (факторизации) или дискретного логарифмирования. Поскольку появление квантовых компьютеров ставит под угрозу безопасность алгоритмов, основанных на этих проблемах, возникает необходимость добавления в OpenPGP алгоритмов, остающихся безопасными в присутствии криптографически значимых квантовых компьютеров (Cryptographically Relevant Quantum Computer или CRQC), т. е. квантовых компьютеров, производительности которых достаточно для взлома традиционной криптографии с открытым ключом.

Такие криптографические алгоритмы образуют пост-квантовую криптографию (Post-Quantum Cryptography или PQC). Определённые в этом расширении алгоритмы были выбраны для стандартизации Национальным институтом стандартов и технологии США (US National Institute of Standards and Technology или NIST) в середине 2022 г. [NISTIR-8413] в результате процесса пост-квантовой стандартизации (NIST Post-Quantum Cryptography Standardization), начатого в 2016 г. [NIST-PQC]. Алгоритм ML-KEM [FIPS-203] был выбран в качестве механизма инкапсуляции ключей (Key Encapsulation Mechanism или KEM) - современного базового блока шифрования с открытым ключом. ML-DSA [FIPS-204] и SLH-DSA [FIPS-205] были выбраны в качестве схем подписи.

В части схем ML-KEM и ML-DSA этот документ следует консервативной стратегии внедрения пост-квантовой криптографии в сочетании с традиционными схемами так, что безопасность сохраняется даже при взломе всех схем, имеющихся в комбинации, кроме одной. Такие комбинации называют мультиалгоритмическими (multi-algorithm) или пост-квантовыми/традиционными (post-quantum/traditional или PQ/T) гибридными алгоритмами. Схема подписи с хэшированием без учёта состояния SLH-DSA считается достаточно хорошо изученной в части безопасности, что позволяет использовать её автономно. На основе этого в данном документе задан новый набор - автономная схема SLH-DSA и две схемы ML-* как комбинации KEM на основе ECC и схем цифровой подписи. Термин «композиционный» в этом документе указывает, что любая структура данных или алгоритм с сочетанием двух компонентов с точки зрения протокола рассматривается как единая структура данных или алгоритм.

Документ расширяет [RFC9580], добавляя алгоритмы KEM и подписи, заданные в разделах 4 - 6, и задаёт соглашения для обеспечения функциональной совместимости реализаций OpenPGP.

1.1. Используемые соглашения

Ключевые слова **необходимо** (MUST), **недопустимо** (MUST NOT), **требуется** (REQUIRED), **нужно** (SHALL), **не следует** (SHALL NOT), **следует** (SHOULD), **не следует** (SHOULD NOT), **рекомендуется** (RECOMMENDED), **не рекомендуется** (NOT RECOMMENDED), **возможно** (MAY), **необязательно** (OPTIONAL) в данном документе интерпретируются в соответствии с BCP 14 [RFC2119] [RFC8174] тогда и только тогда, когда они выделены шрифтом, как показано здесь.

При описании форматов передачи (wire format) применяется оператор || для обозначения конкатенации групп октетов.

1.1.1. Терминология для схем с несколькими алгоритмами

Терминология в этом документе соответствует определениям [RFC9794]. В частности, термины multi-algorithm, composite, non-composite, traditional используются в соответствии с этим документом. Для пост-квантовых схем применяется аббревиатура PQ, для комбинации пост-квантовых и традиционных схем - PQ/T. Сокращение PQ(T) означает PQ или PQ/T.

1.2. Пост-квантовая криптография

В этом параграфе описываются отдельные схемы пост-квантовой криптографии. Все эти схемы разработаны для обеспечения безопасности при наличии CRQC. Однако математические основы схем ML-* и SLH-DSA фундаментально различаются, поэтому различны уровни доверия к ним и характеристики их производительности.

1.2.1. ML-KEM

Механизм ML-KEM [FIPS-203] основан на сложности решения задачи модульного обучения с ошибками (Module Learning with Errors или MLWE). Считается, что эта схема обеспечит защиту от криптоаналитических атак, основанных как на классических, так и на квантовых алгоритмах. Эта спецификация определяет ML-KEM только в сочетании со схемами шифрования Диффи-Хеллмана с эллиптическими кривыми (Elliptic Curve Diffie-Hellman или ECDH) для обеспечения доквантовой защиты.

1.2.2. ML-DSA

Схема подписи ML-DSA [FIPS-204], как и ML-KEM, основана на сложности решения задачи MLWE и варианта задачи поиска короткого целочисленного решения (Short Integer Solution) в модульной решётке (MLWE и SelfTargetMSIS). Данная спецификация задаёт ML-DSA только в сочетании со схемами подписи алгоритма с кривой Эдвардса (Edwards-Curve Digital Signature Algorithm или EdDSA).

1.2.3. SLH-DSA

SLH-DSA [FIPS-205] - это схема подписи на основе хэша без учёта состояния. Она основана на сложности нахождения прообразов для криптографических хэш-функций. Это свойство обычно считается гарантией высокого уровня безопасности, поэтому спецификация задаёт SLH-DSA как автономную схему подписи.

При внедрении следует учитывать параметры производительности SLH-DSA (рассматриваются в параграфе 10.1).

1.3. Криптография с эллиптическими кривыми

Шифрование ECDH определяется здесь как механизм KEM с использованием X25519 и X448, заданный в [RFC7748]. EdDSA в соответствии с [RFC8032] используется в качестве схемы цифровой подписи на основе эллиптических кривых.

1.4. Автономные и схемы с несколькими алгоритмами

В этом параграфе представлена классификация новых алгоритмов и их сочетаний.

1.4.1. Автономные и композитные схемы с несколькими алгоритмами

Эта спецификация добавляет новые криптографические схемы, которые можно разделить на категории:

- шифрование с несколькими алгоритмами с открытым ключом PQ/T (сочетание ML-KEM с ECDH);
- цифровые подписи с несколькими алгоритмами PQ/T (сочетание ML-DSA с EdDSA);
- цифровые подписи PQ (SLH-DSA как автономный криптоалгоритм).

Для каждой композитной схемы эта спецификация требует от потребляющей стороны применения криптографических алгоритмов для каждой схемы-компонента, использованной в криптографическом сообщении, чтобы это сообщение было расшифровано и признано действительным. Это означает, что все компоненты подписей должны успешно пройти проверку, чтобы композитная подпись считалась верной. В случае композитного шифрования с открытым ключом должна быть выполнена каждая операция декапсуляции KEM.

1.4.2. Некомпозиционные сочетания алгоритмов

Поскольку протокол OpenPGP [RFC9580] разрешает сообщению иметь несколько подписей, можно реализовать некомпозиционные сочетания подписей. Кроме того, несколько подписей OpenPGP можно объединить на уровне приложения. В параграфе 3.3 указано, как реализациям следует проверять такие сочетания подписей.

OpenPGP также позволяет применять параллельное шифрование с разными ключами путём применения нескольких пакетов (PKESK¹), реализуя, тем самым, некомпозиционное шифрование с несколькими алгоритмами с открытым ключом.

2. Поддерживаемые алгоритмы с открытым ключом

Этот раздел задаёт композитные схемы ML-KEM + ECDH и ML-DSA + EdDSA, а также автономную схему подписи SLH-DSA. Все эти схемы полностью задаются идентификаторами алгоритма, т. е. не параметризуются.

2.1. Спецификации алгоритмов

Для подписей заданы указанные в таблице 1 (композитные) схемы.

Таблица 1. Алгоритмы подписи.

ID	Алгоритм	Требование	Определение
30	ML-DSA-65+Ed25519	должно	параграф 5.2
31	ML-DSA-87+Ed448	следует	параграф 5.2
32	SLH-DSA-SHAKE-128s	можно	параграф 6.1
33	SLH-DSA-SHAKE-128f	можно	параграф 6.1
34	SLH-DSA-SHAKE-256s	можно	параграф 6.1

Для KEM заданы указанные в таблице 2 композитные схемы.

Таблица 2. Алгоритмы KEM.

ID	Алгоритм	Требование	Определение
35	ML-KEM-768+X25519	должно	параграф 4.2
36	ML-KEM-1024+X448	следует	параграф 4.2

Соответствующие этому документу реализации **должны** поддерживать ML-DSA-65+Ed25519 и ML-KEM-768+X25519, **следует** также поддерживать ML-DSA-87+Ed448 и ML-KEM-1024+X448, но можно опускать их, если среда сильно ограничена. Реализация **может** поддерживать любой из алгоритмов SLH-DSA.

Указанные идентификаторы алгоритмов предоставляют два уровня защиты для каждой схемы, позволяющие найти компромисс между безопасностью и производительностью. Алгоритмы SLH-DSA предоставляют дополнительный компромисс между временем создания подписи (128f быстрее) и её размером (128s меньше) при меньшем из двух уровней безопасности SLH-DSA. Для обеспечения совместимости рекомендуется использовать более крупные наборы параметров ML-DSA и ML-KEM (идентификаторы 31 и 36), но это необязательно. В реализациях, нацеленных на среды со значительными ограничениями, можно не использовать крупные варианты. Для SLH-DSA-SHAKE-256 предлагается только «малый» вариант, обеспечивающий подпись меньшего размера (см. параграф 10.1).

¹Public Key Encrypted Session Key - сеансовый ключ, зашифрованный с открытым ключом.

3. Сочетания алгоритмов

3.1. Композитные KEM

Шифрование с открытым ключом ML-KEM + ECDH включает механизмы ML-KEM и ECDH KEM неразделимым заранее способом. Это достигается объединением KEM, т. е. инкапсуляция/декапсуляция для обоих ключей выполняется параллельно, а полученные части ключа передаются в сумматор, который создаёт единый общий секрет для шифрования сообщения.

Как отмечено в параграфе 1.4.2, протокол OpenPGP по своей природе поддерживает параллельное шифрование с разными ключами. Отметим, что конфиденциальность сообщения при шифровании с разными ключами не защищается пост-квантовой криптографией, пока все ключи не поддерживают схемы PQ(T).

3.2. Композитные подписи

Подпись ML-DSA + EdDSA состоит из независимых подписей ML-DSA и EdDSA, а реализация **должна** независимо проверить обе подписи, чтобы считать действительной подпись ML-DSA + EdDSA.

3.3. Множество подписей

Формат сообщений OpenPGP позволяет включать в него несколько подписей, т. е. присоединять в конце более одного пакета подписи. Реализация **может** подписывать сообщение с использованием традиционного ключа и ключа PQ(T) одного отправителя. Это обеспечивает совместимость с прежними версиями в соответствии с параграфом 5.2.5 в [RFC9580], поскольку унаследованная реализация без поддержки PQ(T) может использовать традиционную подпись. Более новые реализации с поддержкой PQ(T) **могут** игнорировать традиционные подписи при проверке.

Реализации **следует** считать сообщение корректно подписанным, если хотя бы одна подпись (из числа неигнорируемых) прошла проверку. Это согласуется с параграфом 5.2.5 в [RFC9580].

3.4. Требования ECC

Хотя нулевая точка (точка на бесконечности) может возникать в результате арифметических операций с точками кривой, **недопустимо** включение таких точек в какую-либо структуру данных ECC, заданную в этом документе. При обнаружении такой точки реализация **может** сообщать об ошибке.

Кроме того, при выполнении операций, явно указанных в параграфе 4.1.1.1 или 4.1.1.2, **требуется** соблюдать спецификацию и рекомендации по безопасности, указанные в соответствующей спецификации эллиптической кривой [RFC7748].

3.5. Привязка версии ключа

Все асимметричные алгоритмы PQ(T) применяются только в ключах и сертификатах v6 (и новее), с единственным исключением для ML-KEM-768+X25519 (идентификатор алгоритма 35), который можно применять в субключях v4 с поддержкой шифрования.

4. Композитные схемы KEM

4.1. Базовые блоки

4.1.1. ECDH KEM

В этом параграфе заданы форматы шифрования, дешифрования и данных для компонентов ECDH в композитных алгоритмах. В таблице 3 приведены параметры ECDH KEM и размеры артефактов в соответствии с определениями [RFC7748].

Таблица 3. Параметры кривой Монтгомери и размеры артефактов.
X25519 **X448**

Идентификатор алгоритма	35	36
ECDH KEM	X25519-KEM (параграф 4.1.1.1)	X448-KEM (параграф 4.1.1.2)
Открытый ключ ECDH	32 октета	56 октетов
Секретный ключ ECDH	32 октета	56 октетов
Эфемерный ECDH	32 октета	56 октетов
Общий ключ ECDH	32 октета	56 октетов

Процедуры выполнения операций ECDH KEM заданы в последующих параграфах. В частности, каждый из этих параграфов определяет экземпляры операций

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

и

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

Для создания экземпляра ECDH-KEM должен выбираться набор параметров из таблицы 3.

4.1.1.1. X25519-KEM

Инкапсуляция и декапсуляция X25519-KEM описывается с использованием функции X25519() и кодирования из [RFC7748]. Ключ ecdhSecretKey обозначен как g , а ecdhPublicKey - R , они подчиняются уравнению $R = X25519(g, U(P))$, где $U(P)$ означает u -координату базовой точки Curve25519.

Инкапсуляция X25519-KEM.Encaps() включает указанные ниже этапы.

1. Создаётся эфемерная пара ключей $\{v, V\}$ с $V = X25519(v, U(P))$, где v - строка из 32 случайных октетов.
2. Рассчитывается общая координата $X = X25519(v, R)$, где R - открытый ключ получателя ecdhPublicKey.

3. На выходе `ecdhCipherText` устанавливается значение V .
4. На выходе `ecdhKeyShare` устанавливается значение X .

Декапсуляция `X25519-KEM.Decaps()` включает указанные ниже этапы.

1. Рассчитывается общая координата $X = X25519(r, V)$, где r - `ecdhSecretKey`, а V - `ecdhCipherText`.
2. На выходе `ecdhKeyShare` устанавливается значение X .

4.1.1.2. X448-KEM

Инкапсуляция и декапсуляция `X448-KEM` описывается с использованием функции `X448()` и кодирования из [RFC7748]. Ключ `ecdhSecretKey` обозначен как r , а `ecdhPublicKey` - R , они подчиняются уравнению $R = X448(r, U(P))$, где $U(P)$ означает u -координату базовой точки `Curve448`.

Инкапсуляция `X448-KEM.Encaps()` включает указанные ниже этапы.

1. Создаётся эфемерная пара ключей $\{v, V\}$ по формуле $V = X448(v, U(P))$, где v - строка из 56 случайных октетов.
2. Рассчитывается общая координата $X = X448(v, R)$, где R - открытый ключ получателя `ecdhPublicKey`.
3. На выходе `ecdhCipherText` устанавливается значение V .
4. На выходе `ecdhKeyShare` устанавливается значение X .

Декапсуляция `X448-KEM.Decaps()` включает указанные ниже этапы.

1. Рассчитывается общая координата $X = X448(r, V)$, где r - `ecdhSecretKey`, а V - `ecdhCipherText`.
2. На выходе `ecdhKeyShare` устанавливается значение X .

4.1.2. ML-KEM

ML-KEM включает операции

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

и

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

которые определены в [FIPS-203] как `ML-KEM.Encaps` и `ML-KEM.Decaps`. Отметим, что `mlkemPublicKey` - ключ инкапсуляции, а `mlkemSecretKey` - ключ декапсуляции.

Параметры и размеры артефактов ML-KEM указаны в таблице 4, кодирование артефактов задано в [FIPS-203].

Таблица 4. Параметры ML-KEM и размеры артефактов.

	ML-KEM-768	ML-KEM-1024
Идентификатор алгоритма	35	36
Открытый ключ (инкапсуляция)	1184 октета	1568 октетов
Секретный ключ (декапсуляция)	64 октета	64 октета
Шифротекст	1088 октетов	1568 октетов
Key share (общий секретный ключ)	32 октета	32 октета

Для создания экземпляра ML-KEM должен выбираться набор параметров из таблицы 4.

4.2. Композитные схемы шифрования с ML-KEM

В таблице 2 указаны композитные схемы шифрования с открытым ключом ML-KEM + ECDH.

Таблица 5. Композитные схемы ML-KEM + ECDH.

Идентификатор алгоритма	ML-KEM	ECDH-KEM
35	ML-KEM-768	X25519-KEM
36	ML-KEM-1024	X448-KEM

Композитные схемы шифрования с открытым ключом ML-KEM + ECDH устроены, как указано ниже.

- Алгоритм инкапсуляции ML-KEM вызывается для создания шифротекста ML-KEM вместе с общим симметричным ключом ML-KEM.
- Алгоритм инкапсуляции ECDH KEM (X25519-KEM или X448-KEM) вызывается для создания шифротекста ECDH вместе с общим симметричным ключом ECDH.
- Ключ шифрования ключа (Key Encryption Key или KEK) определяется как вывод сумматора ключей, получаемый путём подачи на вход созданных выше симметричных ключей, шифротекста ECDH, открытого ключа ECDH и сведений о привязке протокола.
- Сеансовый ключ для шифрования содержимого создаётся в соответствии с [RFC9580], затем упаковывается, как описано в [RFC3394], с использованием алгоритма AES-256 и ключа KEK.
- Зависящие от алгоритма части пакета PKESK включают шифротекст ML-KEM и ECDH, а также упакованный сеансовый ключ.

4.2.1. Сумматор ключей

Для композитных схем из таблицы 2 **должна** применяться показанная ниже процедура расчёта KEK для упаковки сеансового ключа. Конструкция представляет собой функцию вывода ключа, соответствующую QSF/X-Wing из [BCD_24], обобщение которой проанализировано в [CHHKM]. Она реализуется с помощью представленного ниже алгоритма, который рассчитывает ключ KEK, используемый для упаковки (т. е. шифрования) сеансового ключа.

```
// multiKeyCombine(
//     mlkemKeyShare, ecdhKeyShare,
//     ecdhCipherText, ecdhPublicKey,
//     algId
// )
//
// Ввод:
// mlkemKeyShare - общий ключ ML-KEM в виде строки октетов
// ecdhKeyShare - общий ключ ECDH в виде строки октетов
// ecdhCipherText - шифротекст ECDH в виде строки октетов
// ecdhPublicKey - открытый ключ ECDH для получателя в виде
// строки октетов
// algId - идентификатор алгоритма OpenPGP для алгоритма
// шифрования открытого ключа

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

Значение domSep является константой OpenPGPCompositeKDFv1 в кодировке UTF-8, т. е.

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

Здесь len(domSep) - 1 октет, значение которого равно числу октетов в domSep (десятичное значение 21).

4.2.2. Процедура генерации ключей

Реализация **должна** генерировать ключи компонентов ML-KEM и ECDH независимо. Генерация ключа ML-KEM выполняется по спецификации [FIPS-203] и артефакты кодируются в строку фиксированного размера, указанного в параграфе 4.1.2. Ключ ECDH генерируется по спецификации [RFC7748] с кодированием артефактов в строку фиксированного размера, указанного в таблице 3.

4.2.3. Процедура шифрования

Процедура шифрования с открытым ключом для композитной схемы ML-KEM + ECDH приведена ниже.

1. В качестве входных данных принимается пакет аутентифицированного открытого ключа получателя pkComposite и sessionKey.
2. Идентификатор алгоритма извлекается из pkComposite и помещается в algId.
3. Извлекаются компоненты ecdhPublicKey и mlkemPublicKey из специфичных для алгоритма данных, представленных в pkComposite с форматом, заданным в параграфе 4.3.2.
4. Создаются экземпляры ECDH-KEM и ML-KEM в соответствии с идентификатором алгоритма (таблица 5).
5. Рассчитывается (ecdhCipherText, ecdhKeyShare) = ECDH-KEM.Encaps(ecdhPublicKey).
6. Рассчитывается (mlkemCipherText, mlkemKeyShare) = ML-KEM.Encaps(mlkemPublicKey).
7. Рассчитывается КЕК = multiKeyCombine(mlkemKeyShare, ecdhKeyShare, ecdhCipherText, ecdhPublicKey, algId), как указано в параграфе 4.2.1.
8. Рассчитывается C = AESKeyWrap(КЕК, sessionKey) с AES-256 в соответствии с [RFC3394], включая 64 бита проверки целостности
9. Выводится специфичная для алгоритма часть PKESK как

```
ecdhCipherText || mlkemCipherText || len(C, symAlgId) (|| symAlgId) || C
```

где поля symAlgId и len(C, symAlgId) имеют размер 1 октет, symAlgId - идентификатор используемого алгоритма (только для PKESK v3), len(C, symAlgId) - суммарный размер полей, заданных как аргументы.

4.2.4. Процедура расшифровки

Процедура расшифровки для композитной схемы с открытым ключом ML-KEM + ECDH показана ниже.

1. В качестве входных данных принимается PKESK и собственный секретный ключ.
 2. Из PKESK извлекается идентификатор алгоритма как algId и упакованный сеансовый ключ как encryptedKey.
 3. Проверяется совпадение своего и извлечённого идентификатора алгоритма.
 4. Со своим секретным ключом извлекаются ecdhSecretKey и mlkemSecretKey из зависящих от алгоритма данных, закодированных в формате, заданном в параграфе 4.3.2.
 5. Создаются экземпляры ECDH-KEM и ML-KEM в зависимости от идентификатора алгоритма (таблица 5).
 6. Извлекаются ecdhCipherText, mlkemCipherText и C из encryptedKey, закодированные как
- ```
ecdhCipherText || mlkemCipherText || len(C, symAlgId) (|| symAlgId) || C
```
- в соответствии с параграфом 4.3.1, где symAlgId присутствует лишь в случае PKESK v3.
7. Рассчитывается (ecdhKeyShare) = ECDH-KEM.Decaps(ecdhCipherText, ecdhSecretKey).
  8. Рассчитывается (mlkemKeyShare) = ML-KEM.Decaps(mlkemCipherText, mlkemSecretKey).
  9. Рассчитывается КЕК = multiKeyCombine(mlkemKeyShare, ecdhKeyShare, ecdhCipherText, ecdhPublicKey, algId), как указано в параграфе 4.2.1

10. Рассчитывается  $\text{sessionKey} = \text{AESKeyUnwrap}(\text{KEK}, C)$  с AES-256 в соответствии с [RFC3394] с прерыванием, если проверка чётности не проходит.

11. Выводится  $\text{sessionKey}$ .

### 4.3. Спецификации пакетов

#### 4.3.1. Пакеты PKESK (тип 1)

Специфичные для алгоритма поля содержат вывод процедуры шифрования, описанной в параграфе 4.2.3:

- строка октетов фиксированного размера с эфемерным открытым ключом ECDH в связанном с кривой формате, как указано в параграфе 4.1.1;
- строка октетов фиксированного размера (зависит от идентификатора алгоритма из таблицы 5) с шифротекстом ML-KEM;
- 1 октет размера последующих полей;
- однооктетный идентификатор симметричного алгоритма (только для пакетов PKESK v3);
- упакованный в строку октетов сеансовый ключ.

Для композитных схем ML-KEM в случае пакета PKESK v3 идентификатор симметричного алгоритма не шифруется в соответствии с конструкцией X25519 и X448 из [RFC9580]. Вместо этого он помещается перед упакованным сеансовым ключом в открытом виде, а его размер учитывается в предшествующем поле размера. В случае пакетов PKESK v3 для композитных схем ML-KEM **должен** применяться алгоритм AES-128, AES-192 или AES-256 (идентификатор 7, 8 или 9). В случае PKESK v3 принимающая реализация **должна** проверять соответствие размера распакованного сеансового ключа идентификатору симметричного алгоритма и прерывать процесс при несовпадении.

Реализациям **недопустимо** использовать устаревшие пакеты Symmetrically Encrypted Data (тип 9) для шифрования данных, защищаемых описанными в этом документе алгоритмами.

#### 4.3.2. Пакеты с ключевым материалом

Композит ML-KEM-768 + X25519 (идентификатор алгоритма 35) **должен** применяться только с ключами v4 или v6, как указано в [RFC9580], или с новыми версиями, заданными обновлениями этого документа.

Композит ML-KEM-1024 + X448 (идентификатор алгоритма 36) **должен** применяться только с ключами v6, как указано в [RFC9580], или с новыми версиями, заданными обновлениями этого документа.

##### 4.3.2.1. Пакеты открытых ключей (тип 6 и 14)

Специфичный для алгоритма открытый ключ состоит из:

- строки октетов фиксированного размера с открытым ключом ECC в формате точки, связанном с кривой, указанной в параграфе 4.1.1;
- строки октетов фиксированного размера с открытым ключом ML-KEM, размер которой зависит от алгоритма, как указано в таблице 4.

##### 4.3.2.2. Пакеты секретных ключей (тип 5 и 7)

Специфичный для алгоритма секретный ключ состоит из:

- строки октетов фиксированного размера с секретным ключом ECDH, кодирование и размер которой зависит от идентификатора алгоритма, как указано в параграфе 4.1.1.
- строки октетов фиксированного размера с секретным ключом ML-KEM в формате с затравкой (seed) размером 64 октета (таблица 4). Формат затравки определяется в соответствии с параграфом 3.3 в [FIPS-203]. Секретный ключ задаёт конкатенация значений  $d$  и  $z$  (каждое по 32 октета), созданных на этапах 1 и 2 процедуры ML-KEM.KeyGen [FIPS-203]. При разборе формата или перед использованием секретного ключа для извлечения вызывается функция ML-KEM.KeyGen\_internal [FIPS-203] с полученными значениями  $d$  и  $z$  в качестве входных данных.

## 5. Композитные схемы подписи

### 5.1. Базовые блоки

#### 5.1.1. Подписи на основе EdDSA

В этой спецификации EdDSA указывает вариант PureEdDSA из [RFC8032]. Контекст всегда пуст. Для подписания и проверки с использованием EdDSA заданы две операции

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

и

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

Открытый и секретный ключ, а также подпись **должны** кодироваться в строки октетов фиксированного размера в соответствии с [RFC8032]. Параметры и размеры артефактов EdDSA указаны в таблице 6.

Таблица 6. Параметры EdDSA и размеры артефактов.

|                         | Ed25519   | Ed448       |
|-------------------------|-----------|-------------|
| Идентификатор алгоритма | 30        | 31          |
| Открытый ключ           | 32 октета | 57 октетов  |
| Секретный ключ          | 32 октета | 57 октетов  |
| Подпись                 | 64 октета | 114 октетов |



### 5.1.2. Подписи ML-DSA

В этой спецификации ML-DSA обозначает принятую по умолчанию чистую и хеджированную версию ML-DSA из [FIPS-204].

Генерация подписи ML-DSA выполняется с использованием принятой по умолчанию хеджированной версии алгоритма ML-DSA.Sign из [FIPS-204] с пустой строкой контекста ctx, т. е. для подписи ML-DSA задана операция

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

Проверка подписи ML-DSA выполняется по алгоритму ML-DSA.Verify из [FIPS-204] с пустой строкой контекста ctx, т. е. для подписи ML-DSA задана операция

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

Для ML-DSA применяются параметры с размерами артефактов, указанными в таблице 7. Кодирование артефактов задано в [FIPS-204].

Таблица 7. Параметры ML-DSA и размеры артефактов.

|                         | ML-DSA-65    | ML-DSA-87    |
|-------------------------|--------------|--------------|
| Идентификатор алгоритма | 30           | 31           |
| Открытый ключ           | 1952 октета  | 2592 октета  |
| Секретный ключ          | 32 октета    | 32 октета    |
| Подпись                 | 3309 октетов | 4627 октетов |

## 5.2. Композитные схемы подписи с ML-DSA

### 5.2.1. Генерация ключей

Реализация должна независимо генерировать компоненты ключа ML-DSA и EdDSA. Генерация ML-DSA соответствует спецификации [FIPS-204], а артефакты кодируются в строки октетов фиксированного размера, как указано в параграфе 5.1.2. Ключ EdDSA создаётся по спецификации [RFC8032], а артефакты кодируются в строки октетов фиксированного размера, как указано в параграфе 5.1.1.

### 5.2.2. Генерация подписей

При подписании сообщения M с ML-DSA + EdDSA выполняются указанные ниже операции.

1. Создаётся dataDigest в соответствии с параграфом 5.2.4 в [RFC9580]
2. Создаётся подпись EdDSA для dataDigest с EdDSA.Sign() из параграфа 5.1.1
3. Создаётся подпись ML-DSA для dataDigest с ML-DSA.Sign() из параграфа 5.1.2
4. Подписи EdDSA и ML-DSA кодируются в соответствии со структурой пакета, заданной в параграфе 5.3.1

### 5.2.3. Проверка подписей

Для проверки подписей ML-DSA + EdDSA выполняются указанные ниже операции.

1. Проверяется подпись EdDSA с помощью EdDSA.Verify() из параграфа 5.1.1
2. Проверяется подпись ML-DSA с помощью ML-DSA.Verify() из параграфа 5.1.2

Как указано в разделе 5, реализация **должна** проверить подписи EdDSA и ML-DSA последовательно, чтобы признать композитную подпись ML-DSA + EdDSA действительной.

## 5.3. Спецификации пакетов

### 5.3.1. Пакет Signature (тип 2)

Композитные схемы ML-DSA + EdDSA **должны** применяться только с подписями v6, как задано в [RFC9580], или более новыми версиями, заданными обновлениями этого документа. Зависящие от алгоритма параметры подписей ML-DSA + EdDSA содержат:

- строку октетов фиксированного размера с подписью EdDSA, размер определяется алгоритмом (таблица 6);
- строку октетов фиксированного размера с подписью ML-DSA, размер определяется алгоритмом (таблица 7).

В композитной подписи ML-DSA + EdDSA **должен** применяться алгоритм хэширования с размером дайджеста не менее 256. Проверяющая реализация **должна** отвергать композитные подписи ML-DSA + EdDSA с алгоритмом хэширования, имеющим меньший размер дайджеста.

### 5.3.2. Пакеты с ключевым материалом

Композитные схемы ML-DSA + EdDSA **должны** применяться только с ключами v6, как задано в [RFC9580], или более новыми версиями, заданными обновлениями этого документа.

#### 5.3.2.1. Пакеты открытых ключей (тип 6 и 14)

Зависящие от алгоритма параметры открытых ключей ML-DSA + EdDSA содержат:

- строку октетов фиксированного размера с открытым ключом EdDSA, размер задаёт алгоритм (таблица 6);
- строку октетов фиксированного размера с открытым ключом ML-DSA, размер задаёт алгоритм (таблица 7);

#### 5.3.2.2. Пакеты секретных ключей (тип 5 и 7)

Зависящие от алгоритма параметры секретных ключей ML-DSA + EdDSA содержат:

- строку октетов фиксированного размера с секретным ключом EdDSA, размер задаёт алгоритм (таблица 6);

- строку октетов фиксированного размера с секретным ключом ML-DSA в формате с затравкой (seed) размером 32 октета (сравн. с таблицей 7), заданном в параграфе 3.6.3 [FIPS-204]. Секретный ключ задаётся значением  $x_i$ , созданным на этапе 1 функции ML-DSA.KeyGen [FIPS-204]. При разборе формата или перед использованием секретного ключа для извлечения ключа вызывается функция ML-DSA.KeyGen\_internal [FIPS-204] с разобранным значением  $x_i$  на входе.

## 6. SLH-DSA

В этой спецификации ML-DSA обозначает принятую по умолчанию чистую и хеджированную версию SLH-DSA из [FIPS-205].

### 6.1. Алгоритмы SLH-DSA

В таблице 8 приведена группа кодов алгоритмов для схемы подписи SLH-DSA и размеры соответствующих артефактов. Далее эта группа называется «кодами SLH-DSA» (SLH-DSA code points).

Таблица 8. Коды SLH-DSA и размеры артефактов

|                         | <b>SLH-DSA-SHAKE-128s</b> | <b>SLH-DSA-SHAKE-128f</b> | <b>SLH-DSA-SHAKE-256s</b> |
|-------------------------|---------------------------|---------------------------|---------------------------|
| Идентификатор алгоритма | 32                        | 33                        | 34                        |
| Открытый ключ           | 32 октета                 | 32 октета                 | 64 октета                 |
| Секретный ключ          | 64 октета                 | 64 октета                 | 128 октетов               |
| Подпись                 | 7856 октетов              | 17088 октетов             | 29792 октета              |

#### 6.1.1. Генерация ключей

Генерация ключей SLH-DSA выполняется по алгоритму slh\_keygen из [FIPS-205] с артефактами в виде строк фиксированного размера, как указано в параграфе 6.1.

#### 6.1.2. Генерация подписей

Генерация подписей SLH-DSA выполняется с использованием принятой по умолчанию хеджированной версии алгоритма slh\_sign из [FIPS-205] с пустой строкой контекста ctx.

#### 6.1.3. Проверка подписей

Проверка подписей SLH-DSA выполняется по алгоритму slh\_verify из [FIPS-205] с пустой строкой контекста ctx.

## 6.2. Спецификации пакетов

### 6.2.1. Пакет Signature (тип 2)

Алгоритмы SLH-DSA **должны** применяться только с подписями v6, как указано в параграфе 5.2.3 [RFC9580].

Зависящая от алгоритма часть пакета подписи для кодов SLH-DSA содержит строку октетов фиксированного размера с подписью SLH-DSA, размер которой определяется алгоритмом, а формат указан в таблице 8.

В подписи SLH-DSA **должен** применяться алгоритм хэширования с размером дайджеста не менее 256. Проверяющая реализация **должна** отвергать подписи SLH-DSA с алгоритмом хэширования, имеющим меньший размер дайджеста.

### 6.2.2. Пакеты с ключевым материалом

Коды SLH-DSA **должны** применяться только с подписями v6, как указано в [RFC9580] или более новыми версиями, заданными обновлениями этого документа.

#### 6.2.2.1. Пакеты с открытым ключом (тип 6 и 14)

Зависящая от алгоритма часть открытого ключа содержит строку октетов фиксированного размера с открытым ключом SLH-DSA, размер которой определяется алгоритмом из таблицы 8.

#### 6.2.2.2. Пакеты с секретным ключом (тип 5 и 7)

Зависящая от алгоритма часть секретного ключа содержит строку октетов фиксированного размера с секретным ключом SLH-DSA, размер которой определяется алгоритмом из таблицы 8.

## 7. Замечания по алгоритмам

### 7.1. Симметричные алгоритмы для пакетов SEIPD

Реализации **должны** поддерживать AES-256. Реализации **следует** использовать AES-256 в случае пакета с симметричным шифрованием и защитой целостности (Symmetrically Encrypted Integrity Protected Data или SEIPD) v1 или AES-256 с любым доступным режимом аутентифицированного шифрования со связанными данными (Authenticated Encryption with Associated Data или AEAD) - в случае SEIPD v2, если сертификаты получателя указывают поддержку этого (явно или неявно). Это требование не указано с уровнем **должно**, поскольку сделало бы сообщения, не использующие AES-256, недействительными и отвергаемыми при расшифровке; принимающая сторона может не иметь доступа ко всем сертификатам получателя и поэтому не сможет надёжно выполнить требование.

В сертификат с ключом PQ(T) **следует** включать AES-256 в субпакете Preferred Symmetric Ciphers for v1 SEIPD и пары AES-256 и OCB в субпакете Preferred AEAD Ciphersuites, для явной поддержки AES-256 и AES-256 с OCB.

Если AES-256 не указан явно в субпакете Preferred Symmetric Ciphers for v1 SEIPD, а сертификат содержит ключ PQ(T), предполагается неявное указание AES-256 в конце списка. Это согласуется с обязательной поддержкой AES-256. Если в список неявно добавляется и алгоритм AES-128, он помещается после AES-256.

Если пара AES-256 и OCB не указана явно в субпакете Preferred AEAD Ciphersuites, а сертификат содержит ключ PQ(Т), предполагается неявное указание пары в конце списка. Это согласуется с обязательной поддержкой AES-256 и OCB. Если в список неявно добавляется также пара AES-128 и OCB, она помещается после пары AES-256 и OCB.

## 7.2. Алгоритмы хэширования для подписей привязки ключей

Подписи привязки субключей (Signature Type 0x18) с алгоритмами, описанными в этом документе, **недопустимо** создавать с использованием MD5, SHA-1 или RIPEMD-160. Принимающая реализация **должна** считать такие подписи недействительными.

## 8. Вопросы перехода

Пост-квантовые алгоритмы KEM из таблицы 2 и алгоритмы подписи из таблицы 1 задают новые схемы с открытым ключом в дополнение к алгоритмам из [RFC9580]. В процессе перехода не все клиенты будут поддерживать пост-квантовые алгоритмы, поэтому требуется учёт разных аспектов перехода, в частности, вопросы совместимости с прежними версиями, ещё не обновлёнными для поддержки пост-квантовых алгоритмов.

### 8.1. Шифрование с традиционными и PQ(Т) ключами

В процессе перехода на пост-квантовую криптографию реализации **могут** по умолчанию шифровать сообщения с использованием PQ(Т) и традиционных ключей, чтобы не прерывать коммуникаций. При этом могут выдаваться предупреждения. Как отмечено в параграфе 3.1, защита конфиденциальности сообщения не является пост-квантовой при использовании нескольких PKESK, пока все они не применяют схемы шифрования PQ(Т).

### 8.2. Подпись с традиционными и PQ(Т) ключами

Спецификация OpenPGP [RFC9580] позволяет использовать для сообщения несколько подписей. Это предполагает возможность подписей с использованием PQ(Т) и традиционных ключей, как описано в параграфе 3.3. Отметим, что подписи, использующие только ключевой материал PQ(Т), будут несовместимы с прежними версиями.

### 8.3. Проверка с традиционными и PQ(Т) ключами

При проверке реализация **может** воспринимать подписи, созданные с использованием PQ(Т) и традиционных ключей. Проверяющий с криптографически значимым квантовым компьютером, знающий, что партнёр использовал ключ подписи PQ(Т), **может** игнорировать все традиционные подписи от такого партнёра.

### 8.4. Генерация ключей PQ(Т)

При обновлении ключей PQ(Т) **рекомендуется** генерировать свежие секреты. При повторном использовании материала имеющихся ключей ECC в ключах PQ(Т) совместимость с прежними версиями не поддерживается.

## 9. Вопросы безопасности

### 9.1. Аспекты безопасности композитных подписей

При использовании нескольких подписей для сообщения возникает естественный вопрос об устойчивости протокола к атакам с вырезанием подписи, где злоумышленник удаляет одну или несколько подписей, чтобы к моменту проверки сохранилась лишь часть подписей. Это можно считать атакой с понижением уровня, где значимость подписи снижается. Следует отметить, что описанные в документе композитные схемы подписи не имеют уязвимости, связанной с удалением подписей, поскольку в любой подписи OpenPGP хэшируемые метаданные включают алгоритм подписи, как указано в параграфе 5.2.4 [RFC9580]. В результате композитная подпись, вырванная из контекста конкретного композитного алгоритма не будет действительной подписью OpenPGP для какого-либо сообщения.

Злоумышленник не сможет создать свежую действительную подпись для сообщения, которое уже подписано дважды композитным алгоритмом. Если бы такое было возможно, это стало бы нарушением принципа строгой невозможности подделки при атаке по выбранному сообщению (Strong Unforgeability under Chosen Message Attack или SUF-CMA). Атакующий может попытаться создать новую подпись, смешивая компоненты двух легитимных композитных подписей, но это невозможно, поскольку в начало хэшируемых данных каждой подписи встроено случайное значение с затравкой (salt). В двух разных подписях затравки будут различаться, поэтому компоненты подписей не взаимозаменяемы и не могут быть объединены в действительную подпись.

#### 9.1.1. Предотвращение кросс-протокольных атак с подписями

Кросс-протокольные атаки с повторным использованием подписей из разных протоколов или контекста позволяют злоумышленнику применить действительные подписи не по назначению. ML-DSA [FIPS-204], SLH-DSA [FIPS-205] и EdDSA [RFC8032] поддерживают необязательный параметр в виде строки контекста ctx, которая может быть включена в алгоритм внутренней подготовки сообщения перед подписанием или проверкой. Этот параметр контекста может внести вклад в предотвращение кросс-протокольных атак. Тем не менее, в этом документе для всех алгоритмов применяется пустая строка контекста, что соответствует прежнему использованию EdDSA в OpenPGP и обеспечивает максимальную совместимость с криптографическими библиотеками. Во избежание кросс-протокольных атак эта спецификация рекомендует избегать неоднократного применения ключа в разных протоколах (см. параграф 8.4).

### 9.2. Сумматор ключей

Ключевым понятием безопасности для сумматора ключей является IND-CCA2. В работе [BCD\_24] утверждается, что сумматор, заданный в параграфе 4.2.1 является IND-CCA2-безопасным, если ML-KEM безопасен для IND-CCA2 или в номинальной группе сохраняется проблема Strong Diffie-Hellman. Отметим, что Curve25519 и Curve448 соответствуют таким номинальным группам [ABH\_21].

Отметим, что включение в сумматор открытого ключа ECC учитывает также атаки с множеством целей на X25519 и X448.

### 9.2.1. Разделение доменов и привязка контекста

Информация domSep, определённая в параграфе 4.2.1, обеспечивает разделение доменов для конструкции сумматора ключей. Это гарантирует, что ключевой материал будет использован для генерации KEK конкретного назначения. Добавление в конце октета размера гарантирует предотвращение коллизий между разными доменами, которые могут быть определены в будущем. Это обусловлено тем, что domSep || len(domSep) позволяет гарантированно получить строки октетов без суффикса даже когда для domSep следует задать дополнительные значения. «Без суффикса» в данном случае означает, что ни одно слово в наборе не является суффиксом другого. Это свойство гарантирует однозначный разбор слова с конца строки, а однозначность гарантирует отсутствие коллизий в пространстве входных строк для сумматора ключей.

Идентификатор алгоритма, передаваемый как параметр algID в multiKeyCombine, привязывает выведенный ключ KEK к выбранному алгоритму. Идентификатор однозначно указывает алгоритм, параметры для создания экземпляра и размер артефактов, включая выведенный ключ.

## 9.3. Хеджированные варианты ML-DSA и SLH-DSA

В этой спецификации применяются принятые по умолчанию «хеджированные» варианты ML-DSA и SLH-DSA, которые добавляют свежее случайное значение на этапе внутреннего хеширования, соответствующего алгоритму создания подписи. Это повышает стойкость к побочным каналам операций с подписями в соответствии с [FIPS-204] и [FIPS-205].

## 9.4. Минимальный размер дайджеста для подписей PQ(/T)

Эта спецификация требует при создании всех заданных в ней подписей PQ(/T) использовать дайджест сообщения, созданный с применением алгоритма хеширования, дающего выходной дайджест не короче 256 битов. Поскольку все заданные здесь алгоритмы подписи требуют использовать пакеты подписи версии 6 (или новее), которые имеют в начале хешированных данных случайное значение затравки (salt), требуемым свойством является не стойкость к коллизиям, а стойкость к нахождению (второго) прообраза. Поэтому алгоритма хеширования с дайджестом не менее 256 битов достаточно для обеспечения требуемого уровня безопасности всех алгоритмов PQ(/T), заданных в документе.

## 9.5. Симметричные алгоритмы для пакетов SEIPD

Эта спецификация требует поддерживать AES-256 по двум причинам. Во-первых, AES-KeyWrap с AES-256 уже является частью конструкции KEM, во-вторых, некоторые алгоритмы PQ(/T) рассчитаны на уровень безопасности AES-256. По тем же причинам спецификация рекомендует применять AES-256, если он поддерживается всеми сертификатами получателей, независимо от алгоритма, который был бы выбран реализацией на основании предпочтений получателя. Эту рекомендацию следует понимать как чёткое и простое правило выбора AES-256 для шифрования. Реализации могут учитывать и более тонкие нюансы.

## 9.6. Генерация ключей

Эта спецификация требует при генерации ключей создавать ключи каждого компонента независимо и рекомендует не использовать повторно имеющиеся ключи для любого из компонентов. Отметим, что неоднократное применение ключа в разных протоколах может приводить к уязвимостям с перепутыванием подписей, которое формально считается подделкой. В общем случае неоднократное применение ключа для разных целей может приводить к скрытым уязвимостям.

## 9.7. Генерация случайных значений и затравки

В соответствии с параграфом 13.10 в [RFC9580] все случайные значения должны создаваться с использованием криптографически защищённого генератора псевдослучайных чисел (Cryptographically Secure Pseudorandom Number Generator или CSPRNG).

# 10. Дополнительные соображения

## 10.1. Производительность SLH-DSA

Эта спецификация вводит ML-DSA + EdDSA и SLH-DSA как схемы подписи PQ(/T).

В общем случае ML-DSA + EdDSA по времени выполнения близки к традиционным схемам подписи ECC. В части размера подписей и открытых ключей требования ML-DSA выше, чем у традиционных схем, таких как основанные на ECC, и даже схем подписи RSA.

Разработчики могут предложить SLH-DSA для приложений с более слабыми требованиями безопасности, характерными для схем подписи на основе хэша, а именно, лишь стойкость к нахождению второго прообраза хэш-функции. Таким образом достигается более высокий уровень доверия к долгосрочной безопасности подписей. Однако характеристики SLH-DSA в части времени создания подписи, а также размер подписей выше, чем у схем подписи ML-DSA + EdDSA.

В части времени выполнения наиболее дорогой операцией в SLH-DSA является генерация подписи. В зависимости от набора параметров оно может превышать время генерации в ML-DSA-87 от 100 до более 2000 раз. Эти значения основаны на результатах измерений, опубликованных в материалах NIST для SLH-DSA и ML-DSA. Для быстрого создания подписей следует выбирать алгоритм SLH-DSA-SHAKE-128f (f от fast - быстрый), где высокая скорость достигается за счёт увеличения размера подписи. Этот выбор подходит для приложений с большим числом подписей или высокими требованиями к задержкам.

Для достижения минимального размера подписей SLH-DSA следует выбирать алгоритм с суффиксом s (от small - маленький). Размер сокращается за счёт роста времени генерации подписи. SLH-DSA-SHAKE-128s обеспечивает наименьший размер подписи, который вдвое превышает размер подписи ML-DSA-87. Там, где требуется уровень безопасности более 128 битов, можно применять SLH-DSA-SHAKE-256s.



Время проверки подписей SLH-DSA незначительно превышает время проверки в других схемах PQC. По результатам измерений, приведённых в публикациях NIST для SLH-DSA и ML-DSA, время проверки подписи SLH-DSA для указанных в этой спецификации параметров превышает время проверки подписей ML-DSA-87 от 4 (для -128s) до 9 (-256s) и 12 (-128f) раз.

## 11. Взаимодействие с IANA

Агентство IANA добавило приведённые ниже алгоритмы в реестр OpenPGP Public Key Algorithms [IANA-OPENPGP].

ID: 30

Алгоритм: ML-DSA-65+Ed25519

Формат открытого ключа: 32-октетный открытый ключ Ed25519 (таблица 6),  
1952-октетный открытый ключ ML-DSA-65 (таблица 7)

Формат секретного ключа: 32-октетный секретный ключ Ed25519 (таблица 6),  
32-октетный секретный ключ ML-DSA-65 (таблица 7)

Формат подписи: 64-октетная подпись Ed25519 (таблица 6), 3309-октетная  
подпись ML-DSA-65 (таблица 7)

Формат PKESK: N/A

Документ: раздел 5

ID: 31

Алгоритм: ML-DSA-87+Ed448

Формат открытого ключа: 57-октетный открытый ключ Ed448 (таблица 6),  
2592-октетный открытый ключ ML-DSA-87 (таблица 7)

Формат секретного ключа: 57-октетный секретный ключ Ed448 (таблица 6),  
32-октетный секретный ключ ML-DSA-87 (таблица 7)

Формат подписи: 114-октетная подпись Ed448 (таблица 6), 4627-октетная  
подпись ML-DSA-87 (таблица 7)

Формат PKESK: N/A

Документ: раздел 5

ID: 32

Алгоритм: SLH-DSA-SHAKE-128s

Формат открытого ключа: 32-октетный открытый ключ (таблица 8)

Формат секретного ключа: 64-октетный секретный ключ (таблица 8)

Формат подписи: 7856-октетная подпись (таблица 8)

Формат PKESK: N/A

Документ: параграф 6.1

ID: 33

Алгоритм: SLH-DSA-SHAKE-128f

Формат открытого ключа: 32-октетный открытый ключ (таблица 8)

Формат секретного ключа: 64-октетный секретный ключ (таблица 8)

Формат подписи: 17088-октетная подпись (таблица 8)

Формат PKESK: N/A

Документ: параграф 6.1

ID: 34

Алгоритм: SLH-DSA-SHAKE-256s

Формат открытого ключа: 64-октетный открытый ключ (таблица 8)

Формат секретного ключа: 128-октетный секретный ключ (таблица 8)

Формат подписи: 29792-октетная подпись (таблица 8)

Формат PKESK: N/A

Документ: параграф 6.1

ID: 35

Алгоритм: ML-KEM-768+X25519

Формат открытого ключа: 32-октетный открытый ключ X25519 (таблица 3),  
1184-октетный открытый ключ ML-KEM-768 (таблица 4)

Формат секретного ключа: 32-октетный секретный ключ X25519 (таблица 3),  
64-октетный секретный ключ ML-KEM-768 (таблица 4)

Формат подписи: N/A

Формат PKESK: 32-октетный шифротекст X25519, 1088-октетный шифротекст  
ML-KEM-768, 1 октет остающегося размера, [1-октетный идентификатор  
алгоритма в случае PKESK v3,] n октетов упакованного сеансового ключа  
(параграф 4.3.1)

Документ: раздел 4

ID: 36

Алгоритм: ML-KEM-1024+X448

Формат открытого ключа: 56-октетный открытый ключ X448 (таблица 3),  
1568-октетный открытый ключ ML-KEM-1024 (таблица 4)

Формат секретного ключа: 56-октетный секретный ключ X448 (таблица 3),  
64-октетный секретный ключ ML-KEM-1024 (таблица 4)

Формат подписи: N/A

Формат PKESK: 56-октетный X448 ciphertext, 1568-октетный шифротекст  
ML-KEM-1024, 1 октет остающегося размера, [1-октетный идентификатор  
алгоритма в случае PKESK v3,] n октетов упакованного сеансового ключа  
(параграф 4.3.1)

Документ: раздел 4

Агентство IANA добавило в реестр приведённое ниже примечание.

Поля, указанные в квадратных скобках для формата PKESK, могут присутствовать или отсутствовать в зависимости от версии PKESK.



## 12. Литература

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### 12.2. Дополнительная литература

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## Приложение А. Тестовые векторы

Ниже приведены ненормативные примеры для оказания помощи при реализации.

### А.1. Пример v6 Ed25519 с данными ML-KEM-768+X25519

#### А.1.1. Переносимый секретный ключ

Переносимый секретный ключ содержит:

- пакет секретного ключа Ed25519 v6
- самоподпись ключа v6
- пакет User ID
- самоподпись положительной сертификации v6
- пакет секретного субключа v6 ML-KEM-768+X25519
- подпись привязки субключа v6

Оттиск первичного ключа имеет вид

```
c789e17d9dbdca7b3c833a3c063feb0353f80ad911fe27868fb0645df803e947
```

Оттиск субключа имеет вид

```
dafe0eebb2675ecfcdc20a23fe89ca5d12e83f527dfa354b6dcf662131a48b9d
-----BEGIN PGP PRIVATE KEY BLOCK-----
```

```
xUsGZ3SfgBsAAAAg3LSTXMTIYPje/3KOQ480cxsp1t0/1w2687B8uqUTCvwArfra
hBTuKi jHaDe4/1ZcaYn7Z67De15iWPC/vGa3J4DCngYfGwgAAAA/BYJndIWAAsJ
BwIVCAIWAABkAwIeCSKhBseJ4X2dvcp7PIM6PAY/6wNT+ArZef4nho+wZF34A+1H
BScJAgcCAAAADQ7EIBsYsSttPe/Uf3gEmjU8NG0Ej59FY8N8de0aowAompVXg4Q
T9j1IsjmU28Ex/k1PtewAx5OoeQpQbJ4jjH+R/OZ730kkv+c+1mea5dpJdINzS5Q
UUMgdXN1ciAoVGvZdCBLZXkpIDxwcWMtdGVzdC1rZX1AZXhhbXBsZS5jb20+wosG
```

```

ExsIAAAALAWCZ3SFgAIZASKhBseJ4X2dvcp7PIM6PAY/6wNT+ArZef4nho+wZF34
A+1HAAAAAD4xEPlvPfA18bTluf3pkoZII9dcKlTrJmIkBzQDg5e19xpB50br+7lg
CeQ4F0lsdrb9u7+twdm46fd6pR74naBnq6puYgsQn1LpTfnWqX6BB7sHx8RrBmd0
hYAjAAAEwCIVC0MM9yTsGbi+Vd+byq3jJwhXETAUBKVlyAI0Q7BfXkJC3YN0sGUL
B1LlVZBS1FEx/9op4ncn+0J9IKeKzuu449mu2UdNA/XK+5w1+sGGdTvnRjQ3s7R/
BktVNWBMG0t+eYBtItQaxwYucsOntcO344uH1BA+ZHIALxsHN6KrZPCeqfF9ppTB
8UALvVR0JATPTyuxFw6MUex06GlyzirMXafH8jK5KqZJbJBKwWpO7bIsBBbLpqb
9yQxb7YYJ6VQMgkitrRwWNWQxTGDTEE8/FyUMIYkLGmewmG65RkRbMKICsBX7ld
lcQ7fisEp7Y+WoOVqass6FuOWKJLIhyrg+A930UsNBhGz/iEgJehP2g8AQPNMnO+
IicgIwQdV+YJRreWkVQosYMHxtpQRWKRXmmrGKPFYeoZvoo6qR+JImvIDgy0gV/
eEun8iVoQbXUPIXQJOicOFFiWjXisG/0G3rOyRE9o0iv1xZPku2qKayfFtMwxb
NWg54ieV/uRfrjRRHOnL0SaxigY8N0FIwaTB4uMeyqphG+Ri7nSgnLVxaES9/tzN
iKlgsuAuC5k7E+XPAonGy9IKm+oHJ9hg0XKNzvyNR/uwWhB2WfMFDRB3ldVE3/wh
LLe7yPmpTIFWZ3J2LaaFqTyUhoNW6spRkUWENMgo3MxRS3QgmBGXqou6/7RT2tdV
rWIY8WJO5SmMnZcrJ6oX3qKYgFiJGCTuUegr/cNNJNLE/shyedkdxfg6jaQsZrLx
OWg0fBHtrd1snWWryCofwi7ray3HjNnKjNddfiChjWkLpu5H2dYM/CzdnmmOlK9
7lvJgeZ6SrivUlLTHDikVqVr5F+iPXHU+Wd6hcUxrIH4eUXTJFIUYiamSqB35cg
AAzOBBS/DKwD46pOURchwRNRUbu47qiJE4AT6Ia0dTfKCSRezaJXBN9+oisPDct
QTx/VZaktkvK4hc+DLwuMiQuQMoEv0CgzLlr7XpxvCaEGYoiFTJydFtlhepmheZ3
k0puE51Y8A0JBED1PKPEDzwqD0wOBxAMTEQGIPqH39ENs4q08BcOXjANqwtjxVot
JIurlBcxgsZ16RZOyiaRcCs358AMrExMScNFU+HBIONqXRkzCPOqn3sCMzQO+dwJ
uxNUoEYDcUAtYos8+1BdaHvGaENMY3EuxQWEAJQEN4dpYfe29qlcYowcHRTYosmL
c7OaHMq7wnCzdJeyiHobAigVZGZvAyW6w9cTlQd2pTdsDgSmO8or69gYPKxsmLei
b3JoytejtBhnaexyfeCFhksHzJlu48165fDFE3h5Pmqj8vRGfFik2qbIzrU11ala
/IiJD7RnwTQCyuO++yKba7rClqXCXBFZixBwwTavHeEAPNnMmWxDfna2frNnFKRo
dDaTM7o76Gs7rgTIElAZqfZihlyAJpSwjEcVDZdIRaRTrkK/4PJzVHGh4wwkOwFL
oPEBCMuAYTxfqJVEgdBi6pUsPaEOQzKueIeOVgoFnmhP3+N22fMWkCBc/LYOThtP
XFWtHkq5jmmj+aiuyGOaadccBKWTvxloBly25QADfbYI2oImtVu1JDjFCf6PQ74U
WSEf9EvmTgsMQq/TPICLDUyoTkteLTQAwE2+uDYpXbo85xlZ2/yGneciXS8MvfqB
z8ZOI/yOC3xRsn7ZFZ2nEaAP9RUboQSSkc/gerixe47HC7X+MP6h7UAY49+ndvRO
6AHx2zzZpID1Z0NgX3p6Aem45zjFMT7+wosGGBsIAAAALAWCZ3SFgAKbDCKhBseJ
4X2dvcp7PIM6PAY/6wNT+ArZef4nho+wZF34A+1HAAAAAMiTElFbVWmJm18SWIqP
kabwnOQber9GdZt2dJZF0Y08qGRmLO+T7GIaYj9TlZHonA3y01AA1YdfvolBM2gL
pujFf59V4t3iZxgQqfvs0+vrcSsE
-----END PGP PRIVATE KEY BLOCK-----

```

### A.1.2. Переносимый открытый ключ

Переносимый открытый ключ для секретного ключа из приложения A.1.1 содержит:

- пакет открытого ключа Ed25519 v6
  - самоподпись ключа v6
  - пакет User ID
  - самоподпись положительной сертификации v6
  - пакет открытого субключа v6 ML-KEM-768+X25519
  - подпись привязки субключа v6
- BEGIN PGP PUBLIC KEY BLOCK-----

```

xioGZ3SFgBsAAAAg3LSTXMTIYPje/3KOQ480cxsp1t0/1w2687B8uqUTCvzCngYf
GwgAAAA/BYJndIWAAsJBwIVCAIWAakbAwIeCSKhBseJ4X2dvcp7PIM6PAY/6wNT
+ArZef4nho+wZF34A+1HBSscJAgcCAAAADQ7EIBsYsSttPe/Uf3gEmjU8NGOEj59
FY8N8de0aowAompVXg4QT9j1IsjmU28Ex/k1PTewAx5OoeQpQbJ4jjH+R/OZ730k
kv+c+1mea5dpJdINzS5QUUMgdxN1ciAoVGVzdCBLZXkPIDxwcmVmdGVzdC1rZXlA
ZXhhbXBsZS5jb20+wosGExsIAAAALAWCZ3SFgAIZASKhBseJ4X2dvcp7PIM6PAY/
6wNT+ArZef4nho+wZF34A+1HAAAAAD4xEPlvPfA18bTluf3pkoZII9dcKlTrJmIk
BzQDg5e19xpB50br+7lgCeQ4F0lsdrb9u7+twdm46fd6pR74naBnq6puYgsQn1Lp
TfnWqX6BB7sHx8RrBmd0hYAjAAAEwCIVC0MM9yTsGbi+Vd+byq3jJwhXETAUBKV1
yAI0Q7BfXkJC3YN0sGULB1LlVZBS1FEx/9op4ncn+0J9IKeKzuu449mu2UdNA/XK
+5w1+sGGdTvnRjQ3s7R/BktVNWBMG0t+eYBtItQaxwYucsOntcO344uH1BA+ZHIA
LxsHN6KrZPCeqfF9ppTB8UALvVR0JATPTyuxFw6MUex06GlyzirMXafH8jK5KqZ
JbJBKwWpO7bIsBBbLpqb9yQxb7YYJ6VQMgkitrRwWNWQxTGDTEE8/FyUMIYkLGm
wmG65RkRbMKICsBX7ldlcQ7fisEp7Y+WoOVqass6FuOWKJLIhyrg+A930UsNBhG
z/iEgJehP2g8AQPNMnO+IicgIwQdV+YJRreWkVQosYMHxtpQRWKRXmmrGKPFYeo
Zvoo6qR+JImvIDgy0gV/eEun8iVoQbXUPIXQJOicOFFiWjXisG/0G3rOyRE9o0iv
1xZPku2qKayfFtMwxbNWg54ieV/uRfrjRRHOnL0SaxigY8N0FIwaTB4uMeyqph
G+Ri7nSgnLVxaES9/tzNiKlgsuAuC5k7E+XPAonGy9IKm+oHJ9hg0XKNzvyNR/uw
WhB2WfMFDRB3ldVE3/whLLe7yPmpTIFWZ3J2LaaFqTyUhoNW6spRkUWENMgo3MxR
S3QgmBGXqou6/7RT2tdVrWIY8WJO5SmMnZcrJ6oX3qKYgFiJGCTuUegr/cNNJNLE/
shyedkdxfg6jaQsZrLxOWg0fBHtrd1snWWryCofwi7ray3HjNnKjNddfiChjWk
Lpu5H2dYM/CzdnmmOlK97lvJgeZ6SrivUlLTHDikVqVr5F+iPXHU+Wd6hcUxrIH
4eUXTJFIUYiamSqB35cgAAzOBBS/DKwD46pOURchwRNRUbu47qiJE4AT6Ia0dTfK
CSRezaJXBN9+oisPDctQTx/VZaktkvK4hc+DLwuMiQuQMoEv0CgzLlr7XpxvCaE
GYoiFTJydFtlhepmheZ3k0puE51Y8A0JBED1PKPEDzwqD0wOBxAMTEQGIPqH39EN
s4q08BcOXjANqwtjxVotJIurlBcxgsZ16RZOyiaRcCs358AMrExMScNFU+HBIONq
xRkzCPOqn3sCMzQO+dwJuxNUoEYDcUAtYos8+1BdaHvGaENMY3EuxQWEAJQEN4dp
Yfe29qlcYowcHRTYosmLc7OaHMq7wnCzdJeyiHobAigVZGZvAyW6w9cTlQd2pTds
DgSmO8or69gYPKxsmLeib3JoytejtBhnaexyfeCFhksHzJlu48165fDFE3h5Pmqj
8vRGfFik2qbIzrU11ala/IiJD7RnwTQCyuO++yKba7rClqXCXBFZixBwwTavHeEA
PNnMmWxDfna2frNnFKRodDaTM7o76Gs7rgTIElAZqfZihlyAJpSwjEcVDZdIRaR
rkK/4PJzVHGh4wwkOwFLoPEBCMuAYTxfqJVEgdBi6pUsPaEOQzKueIeOVgoFnmhP
3+N22fMWkCBc/LYOThtPXFWtHkq5jmmj+aiuyGOaadccBKWTvxloBly25QADfbYI
2oImtVu1JDjFCf6PQ74UWSEf9EvmTgsMQq/TPICLDUyoTkteLTTCiWYGwAAAA
sBYJndIWAAsMIqEGx4nhfz29yns8gzo8Bj/rA1P4CtkR/ieGj7BkXfgD6UcAAAA
yK0QsUG9YwkZxXjio+RpvCc5Bt5H0Zlm3Z01kXRG7yoZGys75PsYhpiP10XMeic
DfLTUACVh1++iUEzaAum6MV/n1Xi3eJnGBB+C+zT6+txKwQ=
-----END PGP PUBLIC KEY BLOCK-----

```

### A.1.3. Зашифрованное и подписанное сообщение

Сообщение «Testing\n», зашифрованное с сертификатом из Приложения A.1.2 и подписанное с секретным ключом из Приложения A.1.1 содержит:

- v6 PKESK
- v2 SEIPD

Шестнадцатеричный ввод mlkemKeyShare для multiKeyCombine имеет вид

```
b0e45408d8c713f3941cd27276f879e557df013e05bcf43e37d4c60266a4b797
```

Шестнадцатеричный ввод ecdhKeyShare для multiKeyCombine имеет вид

```
9d994741e0db5eacee44cb028c2ec48b1346feae2576aaac383bbcd64138c932
```

Шестнадцатеричный вывод multiKeyCombine имеет вид

```
5bf078bf7977109db6dead92d3578b62d0ab0487ef84e8e0af08f4b4b229e590
```

Шестнадцатеричное представление сеансового ключа имеет вид

```
94a3b8c9784463bb96b682cddf549adb23579b75bcb646f989d7cfe3e6e14435
-----BEGIN PGP MESSAGE-----
```

```
wcPtBiEG2v4O67JnXs/Nwgoj/onKXRLOp1J9+jVLbc9mITGki50jheL+TOBHsjFH
wVgycjiaAbS8K51gfQw4rBjSsq16Smu90uphsP45SHdcYxgCXThuQ7TN+iSi+eCg
6NwID4cGRb4jVXdq0S9ur3ehWmC142K5BukkbWWBQDJM0hQa9DW+Lz+5Pab6JOFF
OGfbXzRTmuNBM8nePrigXortDe00K6qZ1DvBjXOx5mvuCeJ/33WnfJFYPhxpZfv0
+605dm/Sy+I0QUpaKrViXZoR4Z01gm35NKgYCUmYPV9MpsF8ayZ1iOWkTnLbauU
WpDCT18KNBMQ4WP5QOaxs65CV82AYMkpRBoCmsgjFFBy8fxSeqIKh1qghV3s+7xd
cuSxUc+220//NMNTq6nwDeMwjQ8k015EhFWD0WT2QNXBPMTXrQV0jox5viI+ogom
O+SKE3I66B77OKtOWNP4CQ8dFD2hJpk/G1+ymGNyhMqYCN4hTa4a1l7LAB1Kpvjc
1ZSK4xiJo2m4ua89V9eidgKio8RrikzEe6kwOydA21lnyHjCDPFZ3CYtDp0BYXgB
r10MnZWCGmj/tMU4Pa6qvK7/m0szCpEYOy+nYEnfgiohsuf41U2GeybUrFYOV51W
EF4X6nRatKz/Bz25Tzr1XYgYPhMyOm3gUPR0TH311Nur3EoQLq4n4br9ejUX/VfK
ZPEkWKug/Im8pnz821v0aqJVqnyEeDY0ViIDbCnjVHhI9CVck8rstECjLcJSk9Tz
qS+8Tpi07ie6F91XARiaBwd8HopF4R1LmnKcEhEF/7cJVKTaaOmZR5FRZIGn1oK
e0ANAN0LFP5w2HZqXbpmuRwKrypfkIsHYjFRGO9xDMf7uPiQpZelqL2yVIfpeDGP
rHvJbGzctJ86r5qHA//257mArffHD24QWytBivPkFDJRWI1Qh3Nu3tNwWif5kTar
Tgr66CPfwBa/hLeQWPGcFq0ylh3rhG8CYvxY5cyj40SCp3Q7M3dxods2XsWICKoU
GDo0E9uieJc7f80397DGP4E3BgP7s/Xk2ncWT7NlrpctYgFiMKCjEdSWbo08C8RG
80YgBnMcY3p5xqk2u621JcCeus3uf3Kg6wUBPokja5XdlLbVQId+80MzEDYjhv3x
6c/F0az/Lrzq3/2dnp3vy0rU9WZ593WRnVZ70pcIWQqaJYCiOyZ7mkTkqyhg8P38
YUZuFtSGGk69n7QD3bdZBjbzMRnvevQuXx6+WeXaT9uvEY/GKLeStgpo1laDS97
Ofmxk0JaFVJNjdZl2DjYKEpCdqC0sTabVfLaGu6C3NQTNjCHJNXJhTTF8Bt9c6d1W
ISDESfmHtDnztMW+Y/y+juU/hFwK9w13dolhOHQvqdUrskh+a7rZv4nUt9Badle6
oZtSzXmDM+5PVgU2LQ6RIR0eZ2SoIMBv4PnsykerAoUwRUH4z4gkQi0rU3r4wVta
6kdfo9H1tNd5sl6Afy4SYE06+VsJ9fpr1Q4jKEHbNhanKpgpvs0CQUMyU1A8HBn0
5eqmkIRGAihzdKJzUktiPgYAtg5sC+TlowxmLuzirbEzFQ1UcgRLDzNG1UFeizdy
0sB5AgkCDEZm5g/ljKoOpPuGEZHcWXAJTc4NlctGVZms9el2uztFUGs2t+4e42t
811CsmDm2+2Dgs6TPzGkv4/9yNSKtoZWFE7OfotPsAtz0Lh4e3sDOAky3ZssjchL
LdiKUVpTFGO7x+hQqewYMXLNUshBVDHdxSYy1SYCRRh+K/yzgIkjZv+rtAIfL8tp
ZA4yVEMYXpsBNj4477Qzhx1ZrBhC3DQrjuqOGqKmwed5fsF87efpXwabHgdOwe0J
vqDodfstqnuEDGFPmGK8HsrEGBC/B4n5+VhHD7Ew51000Js3xcux8DVjtnF8evet
AalNDVNZCxs+gntG0LZz7dBYw20TDQ61cWVIKek9UHZFDeG5OzdfFfCsM2kURDhv
ngqFrEkdOzaOHiiZarV74y3G3wZyzXobjp+dpA==
-----END PGP MESSAGE-----
```

## A.2. Пример Ed25519 v4 с данными ML-KEM-768+X25519

### A.2.1. Переносимый секретный ключ

Переносимый секретный ключ содержит:

- пакет секретного ключа Ed25519 v4
- пакет User ID
- самоподпись положительной сертификации v4
- пакет секретного субключа v4 ML-KEM-768+X25519
- подпись привязки субключа v4

Оттиск первичного ключа имеет вид

```
342e5db2de345215cb2c944f7102ffed3b9cf12d
```

Оттиск субключа имеет вид

```
e51dbfea51936988b5428fffa4f95f985ed61a51
-----BEGIN PGP PRIVATE KEY BLOCK-----
```

```
xUkEZ3SFgBuhDibMGc69QTyZKYr3R7MMAQOzuU0Bwg82JVC+LNGHswA4zWTCi+mw
P/WoL5x2SDW3bNe2kpcypEWDTapexJdgWxD1zS5QUUMgdXN1ciAoVGVzdCBLZXKp
IDxwcWMtdGVzdC1rZX1AZXhhbXBsZS5jb20+wsAABBMbCAB2BYJndIWAawsJBwmQ
cQL/7Tuc8S01FAAAAAAANAQc2FsdEBub3RhdGlvbNub3B1bnBncGpzLm9yZ+U1
wyqYGQo/YJguDbFro1cCFQgACGQECmwmCHgkWIQQ0L12y3jRSFcss1E9xAv/t
O5zxLQUnCQIHAgAAiv81HEeRhIsN1a+h8zV+vQ9HbCb5/ukgpBG527xgz2ULCaTJ
s/DvNG1/c+EHwQ8Bk1+dKsr9fWfBmxb3fkxTEYE8RpbBGd0hYAjsIfqoDhr3VUD
76sj9JP+04jzHeAhTXnoPF3N7Cs281UB+Awo6DCHkI8GuMzoPE4BosuYulRyWZL7
xZTGtqua8iSHLRoqlcCFQgACGQECmwmCHgkWIQQ0L12y3jRSFcss1E9xAv/t
2STM1n8wxhRJ2Qo10Ss+m4L2hyt74h0a05D9M8Iy12J+w8G54jmcaRxmNoB1Ones
M052c7T1wcZjWJ2po1Uw8SNgoqAKUBnu5wA87MfJ699igCog2mT8De1W7VA5V4m
hWk3IaGUG+Yahrox3Kx1Vgeeg3d9grjNZAHCMJEt8wFKmH+Ca8GN1jDAEOGQrDs
FzZz0Lg7Gx/96Wuv2gNktLCgPES+ZHN3J6pXe5klpWA8oFi9uLkj2JHYeqG7x1Kv
K3MQFb4RjJbBIE5GKkdQ0xLA+I6vwr5wBm41i27Xps81NwvwSmH1U0bvOC14Bwdc
```

```
p7gqQ0t6JX0qs18jW8Du5l08FgTYBT3qHEWj9BezKqVCUqfXG7bR+DoN+CR4kxZx
Wa/EhXmvqhxJG1lP2G+QQFSS2Zn6SFXf580aMswI1jEPu4RjBEK698d8JiFuKXUA
sHlMfGdF5aXw5rUf4wYIBA9yUjsukD5dhGdPRxEd4hdCSiZjKTEFdDnSZwMTiSx8
AFE04w2jR8OKCin+g8TtBzYq10TAARs29D0thFAuMr9dkYfBFAXdIFgCYl9w1Rpw
g6QwpWJl+1UTc6+QiXTq+qRjQq4zIHv3KBf3y8PM9VsWhISCqrbtRXlqQylRAREx
Sg0eqA8pIm1n0WdpWpRDnMNERsRDY8ksBpjEskLuOn2/syUrGz8IKipIgWx/KURs
UQD0dkWoa2gboXlF7Csd+oVemcK3YWPoa0G2WVHLCDrNr/Yl86e120PeDDmbKKb
xY9xSwF/sZu5K3/mGYBwUmZdfGtylnOexsr0agYZSkEjBkRCWYJYqi+BswClWxr6
1kpYxL6aK5HyCMvGoAa8BbIyp4ZXKXFn61KoW8UtuZUcVcZ7cnD6KwQDCgvt8zk1
mbraF6fCZx18gSgKJ6EqDBc8xm91jItq5rAonI6OyZ1pAGHNp0ucMwD2h5INVcpG
5Svbcbgp8g4Nh2YC6SbGsrMyg7r56vq4V+PAWTo1jJbRZYZg86SDMnN2B7vtGIz
7EzerETQs5F1XyENGku5MB/dswa+0qDZZJd4SvIax4QZBMD0btXIFYOVZVGSKdf
12aqQrz9dFzWGBWduKVEK1fupVeqNLSRGrunEUtuM0+duXgr+R9opk961AIdyiar
BgglwnoE98KrWbg3VQoxpkWisioEQZlNx6h84WUzoCDmtiNOSwGyOR0BekNwAy3
aA3bg3h1hUbK4pH10lEK7m2w9EiVXu23Ka0dBrGJp0IgcBcbAQyC34CeptLxHfLJK
1jYkt8JLEM29EUptHhK5m4ACbMi6hSaKY2zhDp2NGAXBGTw8DZDdHhWIZtfdgJC
9cExwJlY+Q5jOkhSAodehgXFEmkJJ8diLiEr8R7aoE/BRIGs1/P9TOoSziAukr
022b9VpaxFmAw5VKwR1p+LGS05NNk8pHNDH08Zlvq2ucB6XUJZP4+KPae2VsP3sz
Xot9s+Q8MgD8dFKGx/K6MnUo8d4SiSN6xwZrRTOI8isx7mKuottWlFnIp6AbcIcW
v2muZAinRVJ+QOF+0tPZ+U1FXff0TQOboC01StCNTWQH9VssBxNvYzpmkelDStd3
cXl7xiULVi0u5cKqBgBbCABgBYJndIWACZBxAv/t05zxLTUUAaaaaaAcABBzYWx0
QG5vdGF0aW9ucy5vcGducGdwanMub3JngVWn5tMqxzNf8aAp1434UAKbDBYhBDQu
XbLeNFIVyyyUT3EC/+07nPEtAADn/QwnUsJ2e8wOM1CRL7Ufyfta21hApsSrb/KP
aFZa4v1Zz2bq/w+2YWC5UFY9hPTVriMS9ve0oUncLSoTJfMCMwk=
-----END PGP PRIVATE KEY BLOCK-----
```

## A.2.2. Переносимый открытый ключ

Переносимый открытый ключ, соответствующий секретному ключу из приложения A.2.1, содержит:

- пакет открытого ключа Ed25519 v4
  - пакет User ID
  - самоподпись положительной сертификации v4
  - пакет открытого субключа v4 ML-KEM-768+X25519
  - подпись привязки субключа v4
- BEGIN PGP PUBLIC KEY BLOCK-----

```
xiYEZ3SfgBuhDibMGc69QTyZKYr3R7MMAQOZuU0Bwg82JvCL+NGHs80uUFFDIHVZ
ZXIqKFRlC3Qgs2V5KSA8cHFjLXRlC3Qta2V5QGv4YW1wbGUuY29tPslAAQOTGwga
dgWCZ3SfgAMLCQcJkHEC/+07nPEtNRQAAAAABwAEHNhBHRAbm90YXRpb25zLm9w
ZW5wZ3BgcY5vcmlf1JVsQmBkKP2CYLg2xa6JXAhUIAhYAAhkBAPsDAh4JfIEENC5d
st40UhXLLJRCPQL/7Tuc8S0FJwkCBwIAAIr/NRxBkYYrDZWvofm1fr0PR2wm+f7p
IKQRudu8c4N1CwmkyB7zrPf3AvhIVkPAZNfnSkq/X8BQZS9W35MUxGBM7EBgRn
dIWA17CH6qAx691VA++rI/ST/tOI8x3giU156DxdzewrNvNVAfgMKOgwh5CPBrjM
6DxOATrLmLtuC1mS+8WUxrU6rmvIkhy0aKi6aXS+7tDOSFGn2GmnFEZpxgEYVCuh
b5Y6TFV996wJ98swFdkkzJZ/MMYUSdkKJdErPpuC9ocre+IdGtOQ/TPCMPdifsPB
ueI5nGkcZjaAZTP3rDNDQ005cHGY8CidgaNVMPJEjaqKgC1AZ7ucAPozHyevfYoA
qINpk/A3tVu1QOVeJoVpJNYghlBvmGoa6MdysdVYHnoN3fYK4zWQBWjCRLfMBSph
/gmvBjZyWwBDhKw7Bc2c9C40xsf/elrr9oDZLSwoDx0vmR59yeqV3uZJaVgPKBY
vbi5I9iR8nqh8dSrytzEBW+EYyWwSBORipHUNMSwPiOr8K+cAZuJYtu16bPNTcL
8Eph5VNG7zgpeAcHXkYb4KkNLEiV9KrNfi1va7uZdPBVE2AU96hXMI/QXsyq1QLKl
1xu20fg6DfgkeJMWcVmvxIV5r6ocSRpZT9hvkEBUktmZ+khV3+fDmjLMCNyX7uE
Y2xuCuvfHfCYhbi11ALB9THxnReW180a1BeMGCAQPClI7LpA+XYRnT0cXg+IXQkom
YkxBXQ50mcDE4ksfABRNOMno0fdigojfoPE7Qc2KtdEwAEbNvQ9LYRQLjK/XZGB
WxQF3SBYAmJfCNuAcIOkNMK1ZfPVE3Ovk1106vqkY0KuMyB79yqX98vDzPVBfSE
gqq27UV5akMpQUERMuONhqqPKSJtZ9FnaVqUQzZjREbEQ8vJLAAyXLC7jp9v7M1
Kxs/CCoqSIFsfylEbFEAZnzFqGtoG6F5X+wrA/qFXpnCt2Fj6GtBt11R5Swg6za/
2JfOntdtD3gw5myigcWPCUsBf7GbuSt/5hmAcFJmXXrctZznsbK9GoGGUpBIwZE
QlmCwKovgBMApVsa+tZKwMS+miuR8gjl6BgGvAWyMqeGVylxZ+tSqFvFLVM1HFXG
e3Jw+isEawoL7fM5Jzm62henwmcdfIEoCiehKgwXPMTPdYyLauawKJyOjsmdaQBh
zadLnDMA9oeSDVXKRuUr23G4KfIODYW9mAukmxrKzGIO6+er6uffjwFk6JYyW0WW
WIPOkgzJzde77RiGexM3qxqEzqrORSF8hDRPLuTaf3bMGvtKg2WSXeEryAMEEGQT
A9G7VyBWD1WVRrCg35dmqK8/XRclhgVnbpFRCTX7qVXqjS0kRq7pxFLBjNpnl4
K/kfaKZPepQCHcomqWYIJC6BPfCq1m4N1UKMaZForIjheGZZ8eofflM6Ag5ryj
TksBsjkdAXpDccAMT2qN24FYVAZOKR9TPRCuzNsPRI1V7tYmtHQaxiT6CIHAXG
wEMgt+Anqbs8R3yyStY2JLFCZRDnVRfKbYRyuZpuAAMzIuoUminNs4Q6djRgFwRk
1vA2Q3R4ViGbX3YIwvXBMcCdWpKOYzpIUGKHxOYFxrJpCSfHYyBK/Ee2qBPwUSB
oLJfz/UzqEs4gLPkLdNtm/VaWsrZgMOVSSeDaFixkjuTTZPKRzQxzvGdb6trnAel
1CWT+Pij2nt1bd97M1zrffBkPDLcggQYgWgAYAWCZ3SfgAmQCQL/7Tuc8S01FAAA
AAAAHAAQc2FsDEBub3RhdGlvbnMub3BlbnBncGpzM9yZ4FVp+bTKsczX/GgKZeN
+FACmwwWIQ0L12y3jRFSs1E9xAv/t05zxLQA5/0MJ1LCdnvMDjNqks+1H2J7
WttYQKbEq2/yj2hWWuL9Wc9m6v8PtmFguVBWPYT01a4jEVB3tKFJ3C0qEyXzApsJ
-----END PGP PUBLIC KEY BLOCK-----
```

## A.2.3. Шифрованное и подписанное сообщение SEIPD v1

Сообщение «Testing\n», зашифрованное с сертификатом из Приложения A.2.2 и подписанное с секретным ключом из Приложения A.2.1 содержит:

- v3 PKESK
- v1 SEIPD

Шестнадцатеричный ввод mlkemKeyShare для multiKeyCombine имеет вид

```
16f2aea8ec1ca277c04cc7b87681d7d38511a38f554775a8fc4de41aa76eb586
```

Шестнадцатеричный ввод ecdhKeyShare для multiKeyCombine имеет вид

```
2fc0c8fcace9636c86d1ee1715a302819ad48c549579a462a33eed36627c532e
```



Шестнадцатеричный вывод multiKeyCombine имеет вид

```
c1591d7511f9f0213bfd57cf316e5ec0d40c4ea826fa989ab606aa3b8a1a2c1f
```

Шестнадцатеричное представление сеансового ключа имеет вид

```
b4dc7197e1519822ca689da484643edf272934d98ae1974b5d88317a7a6a3c4f
-----BEGIN PGP MESSAGE-----
```

```
wcPUA6T5X5he1hpRI8oKxrVQiCk27ePKVHeA4pTYMKZA6u118syrP2+sEULDgvB
GmH6+0mTw07VEh6J1i1+3ymnnTqLhkv3YqdBTiC81+PL05YPCymPZaWf0ajq+4sM
dnBfLJ3BPrsJw03sVHIBh+L3qo1G0C1iIzGKxIPz9F5RBSvDdSIwCNg9hnfZjpmu
kcmcceYISpWjJR+LeAieYOTZ+Qhx71jYQ2svfpwW+XAw03uMpZkvqkOJmYr8uUca
i8x2j4G6EUXuu9NswSPiRcQ6OZVdp0HUZusFyRZz89V10fQr9hrnJOGw0VtPGZ
SMEulSosvnnK2BQ2ccJVNn0s/mk+fttQLpBBsKCH0UK8norIXt5ahxdj9sSwBTf
q6cPlH21o9OnFSuewFkapA4PuLxhf4YY8ZTsC9LUZLiMf8MrMza7gbtnEbBzW3bx
y6QD6I+PneJ1/8M5a7ECr1FuR2p3Ky6MTiY+6sxJ1GOVhpNS24iO/LRxAUe8DRi
tFC46oEQFByp98SIwt3JoJKHcjQzLKTjRWfYhZDiUnBkoM6nYaAZdItcFsBDG3IV
1UstcmfcCugJyWi8V8XHVkdHwE3bWc1WrhieDCVpfSBD2NnRMGG+g90WtHcwhntf
n/mwyR/GLG+gRc16I5hPm841S34+/txx745yDXdTz/szZAqQw0VW47CwF17A3wdw
cX1UDnUnf7/1lFKqg8Zn/GXGIEreo5q/83Ib7dehm50APhtaKnQzoPbPPu211w+8
/3gisYxQbmrphEpU2KWWWRG5g8P3JG/D9w1HwDhhXPCdNFB7wthQbaDQ1WnN3W1V
BEtWMOqLTTojvrxHbn5judqLYQqGZPbMguzj5JXrQM7wVu4o0edv967oI6ZRBG4y
BtwlXWF3cgMvvAffH8fXGXAAtJw5Gz4/gxzan1q1JcOm6Akqp55J37L1PeXIKHiyX
W/J8qEbK0XgSSa5VduPfnP7AzrLWtyT5B9lqPszmR7euLXvb+tcuNa/G/ldceJO8
6MKJvXyYnk2qpuNWV1NP1CUH583LH2xgJ1Ynk6U7ID4opcBMJuVM+MTA7cmLobE
Fdoa2TvJu5rpyrnqzdhPNqE98P95kZJ/UtaIqJL+zzGkD5rip70DJPuQ6CkVwX1o
pTx2EKwi3c8H5Q2tZUKLYeh8x/1LidZeLBdMLut1Lc7Bmd0j0wU0PrwaSLsWAYmW
L16/cY9xPwIqmC8nST8rH94QoBl5eFkm3HrDYjJZrNybkORKP5oLKG8QoU02kXyW
9TfKNplK0YcFGTKcTK61uD5M2cCdw1PdpswCRLPX7L7LZYaK8nEFAFD6A18ZC45
meBQgY4SuDlucygbFAHiTrXLv4ukBDNRfxe+2dvzig5ryHZj97H5vp89aY1W3gh
GS/k57744ziY/ACTZ8cRrXKqM1oTYjDsNKvmM2J6ij7vRxuMBvM/kO7g+0jD2hPV
eWyIS1VKeT1LG7sRBd+GVQ9jHKpP/7YonXYUrOkpCdG/5YOX6Doo3V1VTRi00QmC
t8716eEJLd7ivorFYFELY5eOEUcjnNLSwEgBr2kPm1Mkn8RS8mCNT188nXgtZk7
yZ1rurNkkqQM53xMaLmQImS+N20GPoa2RdHW+R/veP7LugLO7gozMi/zz9+kcd0Y
wPahWnYz4uHg/zbGFMH/iwQ04nv58gOLJfJafGarwotFvBif14Nd607lmVJTc0
OjVhhisWL5WDIC82+DDU0yDLH/huzY4W7/ks3Hn/UpEwzq+A1/bY3MbQomew5hTI
99z/IeulfiT8/0POofN31vMvTzeGuMMsBiMFp2nbCEHrwWCN9uaE3eAbj3E0OtAM
AIIxypiv+bYm0IA58t7Ur3kMG1KZmcKG4DF5zrLlu5ArX/T7258Z7shYff7WtNU
Wfo=
-----END PGP MESSAGE-----
```

#### A.2.4. Шифрованное и подписанное сообщение SEIPD v2

Сообщение «Testing\n», зашифрованное с сертификатом из Приложения A.2.2 и подписанное с секретным ключом из Приложения A.2.1, содержит:

- v6 PKESK
- v2 SEIPD

Шестнадцатеричный ввод mlkemKeyShare для multiKeyCombine имеет вид

```
16a22adbeced91ada60b5561611748edd2fedc51e0770f86d7394870062e7322
```

Шестнадцатеричный ввод ecdhKeyShare для multiKeyCombine имеет вид

```
5ac67eab192f25ac99d87543e6fcd3a4769cb02c9d1afdc79354c2baa2289e29
```

Шестнадцатеричный вывод multiKeyCombine имеет вид

```
5c5652a690b55d1e9545fbd722f838cd8ff4d3657af5a9026d02f3185ca74993
```

Шестнадцатеричное представление сеансового ключа имеет вид

```
160867d96032b640208c1c92174d0270bb89189d72320711acd221bba2a26b6
-----BEGIN PGP MESSAGE-----
```

```
wcPhBhUE5R2/6lGTaYi1Qo//pPlfmF7WG1EjlejDztYnd2xigU30kc86MsGI+wTe
RO1LNvY4L03KG04LC5S7Ahh1ADVuNqplgbBCjHeiWsMeBIXfwUYH35+X0TB6P++e
pA/flGSeFj2F/ubBL3Xo5r70GeOD55hiJwNjwKj9tEhTkIOa0LFAwNjblCstTW/Y
3rQB01SzyPpk9Qf/iyN5t17/89j/piKJXulgLXnLONBvEqA+gSV/0FhsYHambv/L
ucx5AE6GUJzsFxdjCwVR7/7zdCU6jsfvPSeZry+7CSuTAFYqrh3x8+62Kio0vcoH
irJrIRQsQo06ygvmlJS5vQUF71wNimpXzTjWjqQBuaDwSuYPFVDPd4xIOgmT/oJt
MCA8UOKxdoAnh+XnjqZAsL5EjTPf3UmGLhbnj46XssvtUSuW4qvgFVoR0FNOEBrt
9Tyt7fDzdZkd+RkyLK13igSLXVzB4Ofn9E6dddurICZkFntQoFv/t+qJumc0qQKs
cFrwFO3xt4UrgLFH8SNWJ9Rt6tLaahUD2pY/YNkSSC1+HFPbFSsXTcnfO0t5vfEQg
UVmP5TRVX36qe5EqRt4zZwBzv+Ph01MWQueKXscHGz6+cFR76nktsiOFTlWytudf
fCrvf+hXuGn0mKk3q1TkfmF5vOt+NNiqXt+nzJ7bqdkH3kAQ2qG9UH0Ey1X7ykI4
mKqjNXp3ovwx20hUYrPMRO/XXz7s8ziqX5q544kpjwxU0n9mvWYejr3hePtAK4YD
6WRtqukyuxSPvondyq+q+awcg2AQe5tPH+eMTt/cmlYBdzgVbNkUcy5+87TQJhJ
Ia425biPs4kZku1NP2pN/kVeT8Me56zhdaJF2OwcUGOSjBkgo/F4WyE5bYK7gM5G
/40hnmYIGWitGLOqMn3jyEIceSJsLazJ503iO8ZSRjNwMn6SCOTFn0PMAJAHwa15
jshrrUHJpZri/4Lv8cX1/A5OMULSyKNX3PVk6aZPtZXD0m1MCC0m1vIboFvD1qEx
feSnmAn+xVXjVsA76C0cqQ85XLM8K1qzJXLQnG+4ebsa1OrYreo/1FFLRouY42uS
VY+IZqi3Z2iQou9DKdYWGQAGjB1rdeWe/J6R9BK5n9E5KZ2z9H1JngW3FXX7yxm
ZogvoGgEwnKuxfj138sgtQh8bhXOXs9roNm8uDuwk1zwd9S0x6vcL9h6TBaLPw3g
mwYrawlUONTMBjbu2KGMkqx94V0yMIK1FEA9LLB4akWO4Gnh/qUQbq6Tptb6zZQL
w3GQv4VzOEWsg84Vz7dQWw3hg4/vRSL+TQ1KH5hS2CuCcpVjJvC9hpatnd4DRsVi
/bLy1BRO2VJXFyHERR+gVvN7xo+bAnhC6aasDHH+hqyNagwQBS1upcCr7p+s672W
7GS7IVAiLvXcsS3A5xpkmCb/+2BY34HKW2MsakDJlWY7zYcqeHTqkseHNrarj3
AhJ5u1RYFJJWtXn3J8F55qP7QtIje2ykrm06wwwV1Yfd7DTzIKELZT9Qjyhf9nEQ
e1NwJgVGPNS87iYI11js7fP8K6YyfknyDKNZDjPCJEKL7g40sBjAgkCDJ38fP5P
GQmlf6F96z1/4ACgraWthTKdhMHXMRVYxO3vgFpnQwEMxje1zZBkan355PqAYU5
```



```
1NuIJCCoAghd1k5ygIWF9XGSACGfgvmxCSMV+iMm4E4nI/j6IuJndr3pXrUwo+gS
g2Akz4b/QFZ46wJbFXGGZeo2rGmpXLoyc8lciIcU7k1Ro0g0jafd44Yoz21x7ZYI
UAYRNdYOY5bMdFgXWUYRmXc7VtLJDS5X44nuCA8JZtSu2yilq9vYHqzN0RyMMijj
/D5P3hAxUV3oUfs68oxnGh49k2pii+Bg5iXLvn6Ahxp2rIksECWlkXVKCH91x6nE
Fy70NCeqH2b6JeETZ1xFQEIEInk6B9WE558S9Mi6yjeSXdv65yNK2km5
-----END PGP MESSAGE-----
```

### A.3. Пример ML-DSA-65+Ed25519 с данными ML-KEM-768+X25519

#### A.3.1. Переносимый секретный ключ

Переносимый секретный ключ содержит:

- пакет секретного ключа ML-DSA-65+Ed25519 v6
- самоподпись ключа v6
- пакет User ID
- самоподпись положительной сертификации v6
- пакет секретного субключа ML-KEM-768+X25519 v6
- подписи привязки субключа v6

Оттиск первичного ключа имеет вид

```
a3e2e14b6a493ff930fb27321f125e9a6880338be9fb7da3ae065ea65793242f
```

Оттиск субключа имеет вид

```
7dae8fbce23022607167af72a002e774e0ca379a2d7ae072384e1e8fde3265e4
-----BEGIN PGP PRIVATE KEY BLOCK-----
```

```
xcdLBmd0hYAeAAAHwIgoGEBiAbt7rv8r/76EjORZbGSxv3ZXOBMKhZTrhqxuLcI
G/61UbWg/25J/AGibQkF/oUCH/u375ep8gzUVcdIHwBXuQuAbhDcL0Wyn66Yv7qg
PmjTUY37ZzkM3bTfACG49RrSbGQcvgpMkwC2pS18FfB5Y4oNfHtldLKF24aqmqyO
kQw3w/vET2PMNO5dgPwNNRt0kdZrBBjZFPXtNnZaG0K5Tw4K1QE1Q7UMRYPri9Qa
LFLXBi4ACdSKAQ07vGHCLkZBxMdy38sth+34TGrMzbqCSk+gJewWfx66R9lPr22
YgWAL7dJSRasJam529x4PU48VKqrz1P0sUowgb5k/4/kex+Gwtc5ZI5ChpjnzpVQ
G+AkY7K1giJ5kTKa3xY7yDVuui9ibXbNULTJ15MUoBY+f9fsR0edBLzOM3Z4Mkt0
P4utzW/wG5YxqMbcNOZ6yrY0326BumeMgybJ/Ptufig4+F6dBt1/yfZD9OdQXKqu
5Ne3K9c1Qa4d7cNc71C4XRZYGC4vKMR1gNas2WoROYJh4eaKeppdOaQNgMPZlOrt
YotoQqt4YGESq2MQo+GWYi1EpcRU4euYInRudx0j6LTLu5DowqHBnSLIQQ4sqzXb
FxPpSD5eqtevtimpUJCCGJkvTz7ZeRy7zpc4d0ZvZV0Hq0Y15aGxm2DgUiHdBUR
UzNgBwrH9Ez39zmDgyY546QzVbHzBET1C7quf1eXSZQ1ELEPFLX286CBbnjfa0Jc
ZwUU99Yv2ce5weezcTAd/TenAnN43iQfyfvknc6rZ18WlugzTm+hrmjvI1ipJas9
5Jb0ZoH/d35+510d+LtfK7YBZ06C2U/TvM16b7Rmp/1MuMGgufAnKpXO41B84Yod
uebwlcjyb4auSr521SEz7j7Lj+vxlt17Jb14HFLFHknbHXcQCY6if7NAKPIcQeO7
F/AbelMCGdWsl205jiCaqEafseo+vbDvNfpgTrg+vu9qSVPka630+iApN1RqhbL
ml6QpicpfKqbTfj064M4n93uMaj9Q0/qhUpM/btWuofA/OnGTNHJfJhjt3AYYPNe
KFUMyd4RG+TlzEAvjnDnOolTiRthYjHPsajQU6IpC5FhTISLFmp/mfyx0khUnGav
agz119OYJeF/sDT6wrRuI2P25CIhrcw99VZLzb7DCb+H3e2urCeJMxN3b02F25Y
Ggp3uZEUqas4Hp/GylygKFEVMvTzGRi4zJp/dUGs09P2JKhbuhxu+BYxBNUrdWNK
2fU+5+ed+rG8R1ZMwNg/j0VUTt8YyWjkuNaqoPrNR0IzVdTHQzDIjoFruJ03lu4B
BHUj14EFJC3fyv/YkgUkYnsqEMjUyU51u4AijMRahTgPDSJ3NTg2Y08fivA67Sji
mEjYdwmp8zw5a4ZyJa5qVLv1tFwPAUj2ojE6orS9CqzAaUktLNI3duhThTwLDnv
bCZDnfXObEOnyhiqqyspFKFtoL4Q5ulFNUOzSYWt4ReDZEdsGkZ5UvOCOITIEwh
94pj6BD15LLRHJ3EUXKsK8jUtKrksk9RtY+3HGjI02x83ldVCxx/ur9sNZhmewZG
1oxqIaSVzSQkNFzOACn0mJ5pvp54SzbYua0E1yc10SeMVJfRLJhMRhyeJBiH05QC
ofZ9DJOWRbKbyom2BHLXmZAAhngTw4LDe54/6E49Unoc5C11K6yIuKJ33ETGq22k
uSyK8z4gmz057B/owmR56BmEAJpsWkHVgom0azpSZNjSR5d9vPjWnSdozI6F105H
Gllkt2JtkUK7JfRU1KQBq+11KaSb20U0BIGn9bTGsfXQJtXpBxE/3RKwu4+eYFA
xC50fWo3p+ZLKuo8ecpJH+bX/YvqvcudFu5tWsZzGOSYm4rSiL5C6vhyJIKReiun
64sQ6NdpOYnYrfaJ0h6eqfhCdfcK/hRzErGOSYq3iy3KKrlaXac1yRb512uPTMwQ
ZQwVCNPfWbLmK5Yf50A5Yw0yha2kxhbG4V0Sa5Ts1TnXzIOUg501Mi+zb4CXL
+mFt4nXBR2Xr10S5A9cp5w39KsHzL+LGVvULoF33gEn8CEmuImHRbTDub0rpKnW4
p40p0vvpf1/AnB2oHWk4+xrcvPBmgY2JZbWkmZ08SBTylyxWw31tIWq19tk7cj99
v55AKA2dY516Kwyd3Pu9Y9DCAFo+C/f7ZuciusmFiK+5HRjTB9WXYTea0PbBBw0U
MXRvk7ot3ETznTOHTFMAW0UxLk+HOU3M83sHBog7g9mfVpQjG114QWEMg5Nm1K4n
cQf1wrlIyIPODpMWHXQkU+jw1NDWLnQZBB12m/1zVsdvKvqFTgoXjvksxtQ4mJM3
Lr+S9XLVJV6sTUEfVpUSUJNP6hTkn/FAFRAU/hYUIp046rNzqg121aPePrqP6Ix+
ZccsC9QdtfTPocnM1HvesFsAZ/VAJpmATeTJ0qvrNU1BBceF/akAn2cbJ+ldS/ZT
3HnxZ9tJ/FXhh2dhYj4Lpp/pw/tKpVYEdzxXsqZAUJQZ1SL3HskiJOxEMAJRb3rW
ShEtPZh3SvApGV4xkmxIJ4bXEH3VTLzixFMBg0SxxzIjKGOyCM9+N+av+vILFNML
3vJeWRT9rdctDKwtA6BESOK38Rv/fjzDiOr9hfkARKA73CNRMZU0eIohXPCkW0mr
zccAFm7SeA4J1054RrTwvsaet6/OPMv9v1PojmPhqKOZ98hWf02hpVic2MxfMLM
zAYfHgwAAABYJZBwAawsJZBwMVDAGCFgACmWCHgkioQaj4uFLakk/+TD7JzIf
El6aaIAzi+n7faOuB16mV5MkLwUnCQIHAgAAACvIBDHHXG+SBbic8C9XUwN3cF1
af5btpBMAfY3tx4gshT0QrObYCYI+6nf2DdYtJS0CS49Vzqdv5Rje8xAKCmHJoJy
+sRlqVnJC0TvR6R7fLHoA8U4rxa/m+leKOASKJdTrdU9FYcI1/WYhfqESHAbPcbp
+10+YPB00WNAtxZFSBzDw0UxLk+HOU3M83sHBog7g9mfVpQjG114QWEMg5Nm1K4n
OSdV9heODv65alhsYBME2Z+ga48XBzb4upr2u12yg3AUZEIT8+A0BrG4sh11zm2B
TYT4sSdY0Ieuv+cpwrqXBMAAYmlzKjFMUp1RUie4jLoRAEf21mS5117e7Q3sjy41
fJrHDE/tP/Wm5+1pj9oRGJaQ3k/LF1LYEUfN2BTAmmdv31VLPJeSui2fSBPeOHmb
Lf4dDuj2BUEIAAcXIU6bX4y4vU0fcJya9nGhw6m7ISPvXuu5KpbN9rjgr1KgB+
LjtyDL+FdUMj8jIN4dcCJmkwZ5ASdSQsLE8kz1ke1z8drAx35nKizQf5bVodg6R
yeqWRA0aQJtTsHqDXFOoc6Qdrg9oRb+TWCECAU6gXYnqbgGHI/c/I4YeVRjrJ4S
TCGHw9s7iW8P6J1zIzow7Lba/D4qMPQDfHkiW6MKZ5k4VsGHeOD5eBmbJVTMcYJ
2Uhesj51NbVaP9PC81S4qT+sbzJvNaJYiuYn1CFzy4RKQdgypLJ9Luu2OpT9zLMZ
YKLkwuoZ5ofTQs5DqUG95BJJqZECB2unnjNba4YZZ0/NmWJfzDuwqlq1Kmr4Hr3f
NvCF++kfzGdWYPqzY+WT3sfCW7k6Xq+rxUisdMZ10fydOpRZrVKHhJmL198skEx
Jw3pmItRU3p6eXo9NUV90TpBjgstZeZwvKbdH1jPvCRbBL5rKSA3x4mVteoy/L0g
```

Vw9z8fUi7ZAVI//Q+xNsTsRdl1zypWKORGxGM3jnT0nvdJaRxjhtqQBOLDQyLqU  
koxQS5uINGto8Jm0lnFwI8K0Cz1+wQjUazoFbkrruLJksWobJovrdUU1BuNBhlVi  
eEHk6RgBoa92XMTN1Ab3tN2wvhlRCD8bYuQpZtZRM3Hk9iiGUbo1xISUL5RW9vLq  
60V9K781C83zUys7NYVCd1BFMEBOIVk5sKp8033dkAjrOx9YUv4OuQbV5cDLfCua  
c/3NxmnK11LEAt6H3y8aeHvnzw+yc8m7cz2d1tJa+vwatwhs6z3ygwxD9YXANvpK  
0Z6FBLE772+PWu//eljjPq5rB5UIoN9Ow4Ppai7w9ggLKg6BUTXv7r64IcIkH5er  
hUGcoP/N5eKZ6wxKlWKFSPW77zEKp9fJNDbo+Mjhlam65YtDZ/k0CED2lpock6  
YbABTHfnv68+s2FjF8x5wXeJiehZMmx30ZFJ4L4z5vv9iMY7cf27KyMeoTf/1Unp  
I/MbmoLj4vr6v3mICHmDiLBZY2lg2hwlz1fjQ0sqy3LRehUruux0tYz50UW9DIQn8  
yw8lPtcaW1bVLkoLKkMBE663dhvN2/OXv4L88hElbpFfxL7uuODF2gqUsIMokZym  
tNgJsem65HTAg+GgqJeyxmZzvAftd2/Y+BxGdnJk4xzzvu4YQW/YngSRlpt0GrJ  
c+SbUDHx8+/Iyrl8QdoNfmdLYTS/0kHkA3FdQwLjg5x4VAYxo6xjKKNvU1qDNLem  
44fgD+FCzyyH6wKK4tSOUik19KAYOyN6CHnZQ5ybK6F7BPNRu/5QvbHlnEjc23TR  
hxsGu/B7G8AifdxHsrKc/nzX1lEoR+mFdBn7kcqYpZ1L/ge+D+lyptTQhZnmFpKm  
nCqGyXXKDerWQWUnezahT/G8YvW8izgfpV2J84W/Yh5jXl6UhQMc5Ne1BohwBm0D  
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### A.3.2. Переносимый открытый ключ

Переносимый открытый ключ для секретного ключа из Приложения A.3.1 содержит:

- пакет открытого ключа ML-DSA-65+Ed25519 v6
- самоподпись ключа v6
- пакет User ID
- самоподпись положительной сертификации v6
- пакет открытого субключа ML-KEM-768+X25519 v6
- подпись привязки субключа v6

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hqSBFf66520uTzHVd/n6VNSK/1QICjzZkfNwEsViMbhbm+eS7JbnpFLmJA/7Njlv
5XAEbrRX33P7LOuNSR2sph6e58jMrJ3kVHPLF1U0JRsATgoTqVloFR3S5qC7I8yx
7YmHLpJR2iS14nVkXxR6f3tuC0XPSQLtnUxLkRIEapWoHLAKOJd8+GCB4AyShp/a
IA/IJPpiinqxDtHmj+eNDGxcHxYEgOyitJHz37WQBU4juuieRcCnNEH2BW7dqd91
mPffF/sGVrWgPwSQLhY10tu0LFNlo3dLHnJG/d7/Mx617aiS9pcwWFF9hSDHNvdm
9ZyW2WcdNP+ccGv+xpul3FIZ2s1T1MSGcdQ+LmHCX/BBfkY8eqKU7o2FURiNXgtq
Rfclb8naACMxOTpba5e60dwhfJvvgLURSmLrpGSAkV2JopLrNFBhmF52jpgAAAAAA
AAAAAAAAAAAAAB8TGSIP
-----END PGP PUBLIC KEY BLOCK-----
```

### A.3.3. Зашифрованное и подписанное сообщение

Сообщение «Testing!n», зашифрованное с сертификатом из Приложения A.3.2 и подписанное с секретным ключом из Приложения A.3.1 содержит:

- v6 PKESK
- v2 SEIPD

Шестнадцатеричный ввод mlkemKeyShare для multiKeyCombine имеет вид

```
0987fe72ad5ea58e73344f9a2a543f4131d9fdb7cf07474f501430a20f705b4d
```

Шестнадцатеричный ввод ecdhKeyShare для multiKeyCombine имеет вид

```
88f3e9a8de1917127b4b758f6e83bd4ce00faaae01bd8b6e412a43a710b26012
```

Шестнадцатеричный вывод multiKeyCombine имеет вид

```
a4904982f7caa9c9de690afd772d8bfe027a1ad6a5bbda00db68963fe303ae8e
```

Шестнадцатеричное представление сеансового ключа имеет вид

```
adee68618b302d4bfd7ae3d432bc63a1c1ad7f5fd6e7fd7bdebb0db14a5c9a
-----BEGIN PGP MESSAGE-----
```

```
wcPtBiEGfa6PvOIwImBxZ69yoALndODKN5oteuByOE4ej94yZeQju8Doo+46V6wC
1g9iG7uEMNW9OM7k+TyEPdiJrTLpVgAYIWABypy8azzYN5VD5qRjy3D6TzIr/a7T
ZDwu87J0Az81FuTH4PzSTYRreQQRgfAeucSicrAWwjgWkBAhn9jlbUZm3lIiQUsp
d425KUsjRjz+zBwZGDecd7xgofT185MthQCKxYbrbY8vPQulz4CtjNK15qKEdA
7tEq2sGPHqQhMnRRcwq3+OwE7+sx9/rxhO2Du5ALWa0EfrPQf/fvXlRbaEmGb9XV
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n+WPm+tfHPLM6PDWRxY70brkXebjMoGoKj0Q1kywO5M3Pf/hf+B5w9JLLP/27yCJ
teFeEV7aOfb4syoC3grq0BI315uh21Hg99WvdUbulYgAISb5GhSS2VfznM+mQxRl
Jtc6u7tU504L3tPjWfVScSrbK4NVGsnHDvgq4isbAEw4a8qar57Fbmwy9JMAVCiv
wf8VhWJHnyXxZBmaYqag/jjHjeThYpDeiZl+8SBvo0PmXyUj0dOicpREfEvG3rR
wm78gyWUvTJuZtEmXmvKQkfUm5AHsXjh6WqeDgXSMkMAVYwYIq03xIgzNPXvHvM
E979b1XYjAMEyJE6qN5ngO35nzeKPMm+q9GJnrdrVm7oMcBwEeT1sLKfiVUYCWXI
p4SRZ90bip8jyJnY393Qbcqv1H6VUWK4dNLNwMqHEyF78eGzNig7qIa4WkHJsnCy
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sCQx1BoAxdBoWVXg6rrQsuorKp3U+luXNpSvByoit+JO3baDLidKDBNKw9y8JVR
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g+OOPFDfACPReXaZ44wprtu101NZp0rUrvYUoYsYbYfH7L8J7ZpC1rlqLTJM6lkT
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eUDQqtZHVneSa55oI4ZHtV43y5kri2FVXGE1gYC5Jjf2FfQ7e9raPnWrKLCplcGF
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+JjN2XAb2hFf89RBxZmFWGHR+xyxpcL2n17hj9BwZm5RUK5nztumdRf7AL5PsXTW
pDcb6zJ4D4mjwnc3RdM2SH/TKtbNF3UW7KQj+5FAKcjqQC5fhT8eNYu/QTxeSHVx
gHreOO+mq5Scx050w14ejxlRg77VZGYLnZLLkBr9PovYxK/1BzEEfxMF23U2kTE
uyxYudK1R0BMJd3TNKMj2afY5J31E4n8yhXGdCcGcyvha0GNpWXXkVTXkUEr0IXay
```



```
94gB2aUFQVoyrvivYdJ8lZSseLKR3OK2MZ7cKkpVzC5WoguTZGELr6wKwHfEcXK7u
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GY5cxTkQA7bh00WRyuAXlyqRzmAgNqOadKbBdsPakFjLeHTtWu7BKX4PA/9b1y7
1+qrpQUeE0YUB8Y87wE8THDFBDg6dhBEUp5Q9qMlWIGwAV5u0qtKnq23faxz5gKt
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FyTbNEG6VzmfH3VGKKoNtVpxE7wXXLK8lynEGroYBRxbnqkmmXedNS3yluk/NLob
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kKdphSR+auXprfbmvtk9yoSgdiY1sTTmsrCMfAkDrQsG/OrIi7J9y6dIwhfOLqQ
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GdHqWPrqNq9try0mYy7LiRrRnji5S8gz8McTr3MTMYHqXSmN7FbnrJFqvXg5R44I
QbJmSCXWazJR9FFmle/kZpELaMPPgXq7DwxI3r5JdZxEmUb21z1b6tFMs9Zhrv1u
GmgkuJ9gHoNmyG4HsDCNLM41fO2X16MBDHMC/pYe+7r13Y+a7r0r5VxglwLne3pU
ljWpqtVg3BmK017c5TnrSXyXErWk13cqVyUWIy5ASVxrakYP3ad4Xzx5W7f1RrCW
2ijzo5KoRbi+wTQcOlGj9PH1ZT1B+eD7BedfBzAwks+OD7kd4xFBDDeg5qTdepy
V5dzT1huYJhvyysjfZ7FQTJaYdE+9o8FSiw5jRhONcQZeZLVAm/cNHe0+TvJUD4c1
l+YrewJfKaKikWS/rGxVjH3ZK1btE/w58wNi47SZFD2sRKQmL6U+u93E2ZcyZrQZ
vUaYIwCAkHqE0G7owqVFU9aYUkZDUAJ4YmtAyTZQGVagrNwmzqQ4KooFsb1DQIK
KQpgHS/mWmQ1No2GZ04RqTomlSyDSqOfiqcgE32C+kh35Xqfj0LtmBNm7mAR5J4p
xK41KWZBGxwZDg7maH3xkOdnXelEPKONACf+tvYjoS9N9YDbD42y723pmYIiTRoE
17APmjuZmvBlztNhG5S145JqOTan4djB12P0se2ZoXyGCTRJkvQM34hiKaAHUD
d05+6FDfZa8UeLxfyn+cQZLatJMCshUIGfIbe89zzvFLG7yIDrRGZFTQ1Z0+s+FC
sz6s4dQwCBkFW5GqQ5x9HdEz4jWsjje2RBh347G8q6Sd2LoY7Yuf4hmiPkL6vTMFy
s8yNwE7yT09Tw95sgWK2Rg1LC95oCiEyMOJyas8y8yKlWryJec/xJk5m07FcmV3
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OudP1bbC6ze21BBZzndi76OUYkI3BhGxUM8icDl1DuJp1t/rs06bhxAB6QCc3sM
aZYG/qwhzTo+PgIjbI2Ba66A/1WQIzA229mcDaxB06UizhWV9xRNygz1bJscceH8
FW4142aKYtYD/UbumdQNJbK1w6jG/Q6JQSF6F4Zh38SaoUCF/kkLTeIbuaKdgM0Y
4SDs8NoRzqlztkLQrFtJ8Zkr9y0gm8TwfARNbWJHJnBr5/4ECXZ86f1t82hKays
KcsQz1b3+xEmfLJmcbkeKukHbR6EodaC7DXbTMXHC/MRxG27w3Rhoke5uf19pqS
zi4fHC0TX+vYol2nOxUbPlveLv5l+mg6E0uMs5YmG49xNZigvvczzytUOOH0tWFT
7sQtroE5KfeaQRNBy7qxInMFPqMgczm22QmtrJKST/OfskEssZFdc6kOMzN/iWNw
+Evc2TxxRqP53RfX4GWLJgVeBJudRMAWFzCVJ5Jx00hb3e35gvPXjpceuh00M34Hq
utnRQt1ISxQmw+nNwSj7q6PF8mJdGVz56Nj245gk070G3lNmXvWF1JsJnRtNu
ak/MpQwGKTcC2WrrqWhgq/WTs+8Nck5Vfa2P
-----END PGP MESSAGE-----
```

### A.3.4. Отсоединённая подпись

Отсоединённая подпись для сообщения «Testing\n», созданная с секретным ключом из Приложения A.3.1 содержит:

- пакет подписи v6.

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

```
wsylBqEeCAAAACkFgmgr5RqioQaj4uFLakk/+TD7JzIfEl6aaIAzi+n7faOuB16m
V5MkLwAAAAcrSBBfUT7vIas9dx8QHh41xB13AgTJ/ZWeIonCLmgBizODMi0CrzXf
mPUoww+q+7XpwVfY7GuDyvoeR1fUibEW7VfV2sL8/xlYSIq7g48rENA7A/XWuwcs
JqDY1Kmb4RBmKEz8NngMftkmP6/oSey5+e6cKKSrvspxptSPHTlrd6iSUGcQsZ87
OIHjZTVDFWf4ZBSwYhORAXIfk1Wk5OPZKYLMdpbXwqdfPustpvr2uUPkjYCM0WwbG
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MQWDuTEphzTfxKowhb/jW00j0TzzjfoDzQXSFM3CMdeOLRB+koUCWvKwjJ5L6EWL
B9cZkcGyWN4jEnciOOHMayo7VkvILu2y18S2ZyAo8KSsZAMn+YYW9j1DZernxjLS
kEOQkWFoXK9JQ/qJNJSvezQKbuNiLOmtBi7HPWBA+YUB3vxzlesViPEOpb8BpWvX
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2SnrDh/HBotSWr1y/OKHhUkkuQmNChIhDEjVDqgvi8TFohV0+TQIR/D7P0MvuOLK
yGNRwRwFGFMiFcrOXfiXuXafgo5eLOIO5isF0N4eAoi38VzCABE/EQ3TM38YvKEt
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esr9+vi08pb00mue1PNPpI+RL5xm3psQViy1SZiHH0WuyCwfflT2hORbDFs+iH4Q
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gBdIAF6yQSmEIBceZODEWAvCSW5KJGOIdlHWYJTAtDwQdmku8JSpvcUR1C0pKPs9
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```

```
ikQf826SRbZG/+kPm+OzJy98xieUTmdpcLjNVEGJi/r3YCFKKR6dyFACFI/mqx0
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2iPwCDS5EVvJNFYdsinzBrVuMNHMLbymeGajOJ88U7oo0SvQYbyI/zgdQBeSnp1D
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-----END PGP SIGNATURE-----
```

## A.4. Пример ML-DSA-87+Ed448 с данными ML-KEM-1024+X448

### A.4.1. Переносимый секретный ключ

Переносимый секретный ключ содержит:

- пакет секретного ключа ML-DSA-87+Ed448 v6
- самоподпись ключа v6
- пакет User ID
- самоподпись положительной сертификации v6
- пакет секретного субключа ML-KEM-1024+X448 v6
- подпись привязки субключа v6

Оттиск первичного ключа имеет вид

```
0d7a8be1410cd68eed4845ab487b4b4cfaecd8ebad1a1166a84230499200ee20
```

Оттиск субключа имеет вид

```
65090e147a8116ab7f62ab4ec7aae59d9e6532feb2af230c73cdc869fbc60c8f
-----BEGIN PGP PRIVATE KEY BLOCK-----
```

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#### A.4.2. Переносимый открытый ключ

Переносимый открытый ключ для секретного ключа из Приложения A.4.1 содержит:

- пакет открытого ключа ML-DSA-87+Ed448 v6
- самоподпись ключа v6
- пакет User ID
- самоподпись положительной сертификации v6
- пакет открытого субключа ML-KEM-1024+X448 v6
- подпись привязки субключа v6

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BQwVHCioMDU=
-----END PGP PUBLIC KEY BLOCK-----
```

### A.4.3. Зашифрованное и подписанное сообщение

Сообщение «Testing!n», зашифрованное с сертификатом из Приложения A.4.2 и подписанное с секретным ключом из Приложения A.4.1 содержит:

- v6 PKESK
- v2 SEIPD

Шестнадцатеричный ввод mlkemKeyShare для multiKeyCombine имеет вид

```
f18f161e17b8ce5968f109aadea1e7e1511d10165768d36127ba913c00637d2
```

Шестнадцатеричный ввод ecchKeyShare для multiKeyCombine имеет вид

```
732860c8114ae84a964664b1f607785d11bc7d24d5324510adad89bd52db7ee0df99
82ad0d1669bdd0556330c86f2dae9e2edea42e05bc5
```

Шестнадцатеричный вывод multiKeyCombine имеет вид

```
ef1e32906f67d39bc800d90cabb0033c77ca6dce8ffca3e96d9c7348e2e8c16e
```

Шестнадцатеричное представление сеансового ключа имеет вид

```
0588ce40b038aac353d1cf8c67a674b412985105794821013ef154f786c4d89d
-----BEGIN PGP MESSAGE-----
```

```
wcXlBiEGZQkOFHqBfQt/YqtOx6rlnz51Mv6yryMMc83IafvGDI8k+1L82B20zVhA
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-----END PGP MESSAGE-----
```

#### A.4.4. Отсоединённая подпись

Отсоединённая подпись для сообщения «Testing\n», созданная с секретным ключом из Приложения A.4.1 содержит:

- пакет подписи v6.

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

## A.5. Пример SLH-DSA-SHAKE-128s с данными ML-KEM-768+X25519

### A.5.1. Переносимый секретный ключ

Переносимый секретный ключ содержит:

- пакет секретного ключа SLH-DSA-128s v6
- самоподпись ключа v6
- пакет User ID
- самоподпись положительной сертификации v6
- пакет секретного субключа ML-KEM-768+X25519 v6
- подпись привязки субключа v6

Оттиск первичного ключа имеет вид

```
eed4d13fc36c78e48276a93233339c4dd230fd5f6f5c5b82c63d5c0b5e361d92
```

Оттиск субключа имеет вид

```
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-----BEGIN PGP PRIVATE KEY BLOCK-----
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cOrVcviHJiQf4pArtSHV0pUIMcusFC5I120ARKsrOSngGNMRTigQ  
-----END PGP PUBLIC KEY BLOCK-----



### A.5.3. Зашифрованное и подписанное сообщение

Сообщение «Testing\n», зашифрованное с сертификатом из Приложения A.5.2 и подписанное с секретным ключом из Приложения A.5.1 содержит:

- v6 PKESK
- v2 SEIPD

Шестнадцатеричный ввод mlkemKeyShare для multiKeyCombine имеет вид

```
5dc60150f5f965ddc8014b6aa2ecae1831467e98fa315422f238984d6421a22e
```

Шестнадцатеричный ввод ecdhKeyShare для multiKeyCombine имеет вид

```
9dbd0f9bde7fef09817146e53a0b5ce7d27e79612670968fa0025422c578ab55
```

Шестнадцатеричный вывод multiKeyCombine имеет вид

```
ae8ab57801911c04c7b4c2a2f665cf8d8a8188f948c2a65e39c292d9b1d86e32
```

Шестнадцатеричное представление сеансового ключа имеет вид

```
е87567cad8fee5738f92090feed009d8af95437fa664f94da98776d966bbbc52
-----BEGIN PGP MESSAGE-----
```

```
wcPtBiEGPodFpLtIh3ng8ySA+ip40L/YwvSdf3TpV+HC/8LvS/wjluPo1tUoCKbW
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-----END PGP MESSAGE-----
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#### A.5.4. Отсоединённая подпись

Отсоединённая подпись для сообщения «Testing\n», созданная с секретным ключом из Приложения A.5.1 содержит:

- пакет подписи v6.

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

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

## A.6. Пример SLH-DSA-SHAKE-128f с данными ML-KEM-768+X25519

### A.6.1. Переносимый секретный ключ

Переносимый секретный ключ содержит:

- пакет секретного ключа SLH-DSA-128f v6
- самоподпись ключа v6
- пакет User ID
- самоподпись положительной сертификации v6
- пакет секретного субключа ML-KEM-768+X25519 v6
- подпись привязки субключа v6

Оттиск первичного ключа имеет вид

```
d54e0307021169f7b88beb2b76e3aad0e114be1a8f982d74dba9ca51d03537f4
```

Оттиск субключа имеет вид

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

```

## A.6.2. Переносимый открытый ключ

Переносимый открытый ключ, соответствующий секретному ключу из Приложения A.6.1, содержит:

- пакет открытого ключа SLH-DSA-128f v6
- самоподпись ключа v6
- пакет User ID
- самоподпись положительной сертификации v6
- пакет открытого субключа ML-KEM-768+X25519 v6
- подпись привязки субключа v6

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

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### A.6.3. Отсоединённая подпись

Отсоединённая подпись для сообщения «Testing\n», созданная с секретным ключом из Приложения A.6.1 содержит:

- пакет подписи v6.

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## A.7. Пример SLH-DSA-SHAKE-256s с данными ML-KEM-1024+X448

### A.7.1. Переносимый секретный ключ

Переносимый секретный ключ содержит:

- пакет секретного ключа SLH-DSA-256s v6
- самоподпись ключа v6
- пакет User ID
- самоподпись положительной сертификации v6

- Оттиск первичного ключа имеет вид

Оттиск субключа имеет вид

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

[www.protokols.ru](http://www.protokols.ru)



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

```

## A.7.2. Переносимый открытый ключ

Переносимый открытый ключ, соответствующий секретному ключу из Приложения A.7.1, содержит:

- пакет открытого ключа SLH-DSA-256s v6
- самоподпись ключа v6
- пакет User ID
- самоподпись положительной сертификации v6
- пакет открытого субключа ML-KEM-1024+X448 v6
- подпись привязки субключа v6

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

```

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```

### A.7.3. Отсоединённая подпись

Отсоединённая подпись для сообщения «Testing\»», созданная с секретным ключом из Приложения A.7.1 содержит:

- пакет подписи v6.

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## **Благодарности**

Спасибо Daniel Kahn Gillmor, Justus Winter, Daniel Huigens, Evangelos Karatsiolis и авторам ранних реализации документа за их рецензии и отклики.

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