

Web3 Walet

合約審計報告

VER 1.0

2022年8月15日

No. 2022081514130

頂自總結

1. 項目介紹

Web3錢包包括Android、IOS和Chrome流覽器外掛程式在內,一共有三個用戶端,主要功能包括資產看板、NFT市場和發現頻道三部分,資產看板提供多鏈、多資產的管理功能,可創建和導入助記詞,並允許用戶在一個介面上跟踪多條公鏈的資產組合;NFT市場提供NFT資產的一站式服務,允許用戶在一次級市場參與NFT交易,同時具備各類創新功能和靈活玩法;發現頁則提供DApp、鏈遊等DeFi版塊的相關資訊。

2. 審計詳情

項目名稱	Web3 Wallet	平台	N/A
通證名稱	N/A	通證代號	N/A
開始時間	2022年8月8日	語言	Kotlin/Objective-C/Go/ TypeScript/JavaScript
結束時間	2022年8月15日	官網	N/A
Github	N/A	白皮書	N/A

3. 審計範圍

3.1 Android

ID	文件	SHA-256 checksum
Android/	WalletCreateUtils.kt	e86c771b5940c8284bd5b55769ae2808be71041 357720d5d45742a1c1d7d867d
Android/	WalletBridge.kt	861af2d64f820dd837acb0d5f9e1312b99343a71ff 74bdc8ec5a013f0091be17
Android/	WalletImpl.kt	ba9ed2f875fff6a5d828b5e5ddd4a1f661974d1fa7 1b84956881ffd17897b52f
Android/	WalletGenerator.kt	960cb05d2c653f5d1a00a22891b778852ae22efca 973493a8e2305a14a3d12d2
Android/	WalletApiService.kt	6b65073531df9851c07826859d27488bce0c63a8 8795d4e7413483dc9ead6856
Android/	WalletManager.kt	434002140d4545b4bc5e05c597d565e94897369 e5a73d47023e6e23120fc7e2d
Android/	IWalletManager.kt	f62f7d8f8d7d9d8ac8e1a21266d25a4f41c73f7a1c dbbc98593033b41fbf878f
Android/	WalletLoader.kt	9cebab782e3e14f1fa73bb24ebe56cacfddfb9207e 0277180d28feed9271d87f
Android/	PasswordManager.kt	5bdc70d014ec3148cdd52f8a0f1fd803a85ea0d09 344d906351f703e254a6d6f
Android/	WalletBuilder.kt	b9eb98b5a48704477b2fea801997f462648193ee 57e22af40836cf862e0a3dd5
Android/transaction/ impl/	OkNearTransaction.kt	2da86c5a63338ed7ee7ba6d334a6e3f8abd483e1 6834432ac4747fe9fe0b6d3e
Android/transaction/ impl/	OkPolkadotTransaction.kt	74259e157130e010e9f2567772bd3aac5b9e7c68 8eff0e39e3be69828e6487cc
Android/transaction/impl/	OkAccountTransaction.kt	0e39ce5be8a630dba5b4a9fd27b2c7e6fce5cab6f 09b26c3f100a5679fd91b15
Android/transaction/ impl/	OkSolanaTransaction.kt	d65a3b5655b2d843fb6c4a99ef774c19a88579cbe
Android/transaction/ impl/	OkCosmosTransaction.kt	597571b09b2dfe70b3577ed27d90a11ba5925c74 ffcbcdd1236246731c9c3d28
Android/transaction/impl/	OkUTXOTransaction.kt	106fbe6e35d715514bccc9cbf3722ebc37de0a193 71f8d5174a02f8410ebb059
Android/transaction/impl/	OkWavesTransaction.kt	a6c607278f4798ac5d1bb16b204bb4eff01617cb8 d602df30068050fd8b7403d
Android/transaction/ impl/	OkEosTransaction.kt	733d4629200a0bfae36c7b9bffa3ed484d1ae7a0e e71863157ba4cbcce8e0b71
Android/transaction/ impl/	OkTronTransaction.kt	4771442acef494796fcee8966fb866fe04921852d ef5efd069efe7904454b454

ID	文件	SHA-256 checksum
Android/transaction/	TransactionFeeInfo.kt	6fe15b80bc21e9c84bec9b64b03348512845b51af e1fa2aff10fa03490178ad8
Android/transaction/	calculator/ OkCurrencyCalculator.kt	b00906bb199b3783f3aab6146516ab69d321e048 98b651c43aaad5e22d0b51e5
Android/transaction/	OKWTransaction.kt	afe65003b9a1ea39976713d5c14a91b105d5f2fed ccebacf67e0461dde8d2479
Android/database/ repository/	IRepository.kt	8f5067be6ef65c501b1c99abf3d020f6ded5007d2 e56e4104dc938b16875a270
Android/database/ repository/	KVRepository.kt	a5507044abb81cf046f94b4c788918087e0f6c020 607775f24f4076174b5f439
Android/database/ repository/	SyncRepository.kt	09aa25be018b723b39cccc4a0271ee469ad9fc03 909b4a15281eeec2f03ea7f5
Android/database/ repository/	AddressRepository.kt	0774645ace9891154d88ab1c50c01bea290e5e14 6128db9d6ba481276b318b14
Android/database/ repository/	WalletRepository.kt	151996540cd108a7b6281914068f8c034f942494f 53ac33bc08e5ffa75772fd2
Android/database/ repository/	DAppRepository.kt	64179d021be8f4290dd3f6e512ce4cb7349c2956a 283e3696c81fdef35b026a3
Android/database/ repository/	MessageRepository.kt	f98c1dfc9d19afe983776d96eb325e0ea44f6eee3 09d91e6908b0c665b6e9cdd
Android/database/ entity/	ChainAddressSegWitEntity.kt	ce5db3da451748456e03396e6c9857f610539a98 06cf6d6b58edafbebdf548b8
Android/database/ entity/	WalletNftEntity.kt	2541f89779eaca6cb24d6385120ac806f531769c6 ca30311175255cc4149d878
Android/database/ entity/	DAppHistoryEntity.kt	3db90fbf7157af472eb9bcf170653d054eba89cce2 283d0078d70878f85b84b0
Android/database/ entity/	AddressEntity.kt	5f4548f781d7c3b7851e70d1184299cd95ec05c19 19b5e46335eb46b7f7fc634
Android/database/ entity/	DAppFavoriteEntity.kt	a87e2b59b5c67350ac8863137158966d56224ea 0d8883b406ed6d14c1d7207cd
Android/database/ entity/	TxLogEntity.kt	3a2716d89e40058c92e44811f8398b7b182ee53b af1ced43f7366846226b2920
Android/database/ entity/	WalletOpenedCoinEntity.kt	3bde25fe406719bbbd1cbaf1ee116cf3acb7f60c29 0b710422e57f29cd3ac93e
Android/database/ entity/	MessageItemEntity.kt	104f7d29b4fd49b29dae972991d1b2b56bf75b3f2 46fe7a6713e3f8e134564e3
Android/database/ entity/	WalletClosedCoinEntity.kt	f13fddb67d17a8a665e0e75636b1caa842208656 06231a278a6d6270ead226a5
Android/database/ entity/	KVEntity.kt	09a6b5e5f5cb7f7cde0c7d16eeaea68830819c790 23c68bb5ea0c109dfc08cbd
Android/database/ entity/	ChainAddressEntity.kt	0149c7b63a628c4c609b1f38e886ebe6df9d1342d 086d5f333485d9383cd3554
Android/database/ entity/	SepInfoEntity.kt	81c77f55cbdd4ea468571a6d4a30a9e9536a4879 495d88829d430034b5fee667

ID	<i>₹/</i> #	CLIA OFC abackarum
ID	文件	SHA-256 checksum
Android/database/ entity/	WalletDefiEntity.kt	90e3f4f8fe5fa12eb8d8cccc8e230ca0afc7febe54c 71d62d0bb59351168534e
Android/database/ entity/	EOSInfoEntity.kt	8419a4f0f80d07893d416bd876fa8aeb0ff4068fc0 6804ebc21d6d692bcae26b
Android/database/ entity/	RootWalletEntity.kt	86347fdd4ad3b45b8d60874ec6f6e0aa3e673507 9c09c1b5558766c71dd40912
Android/database/ entity/	DAppTabEntity.kt	17ab9f59c4f7f98f786afbf3810cdc218324be49f40 75580268c8febc207ed2a
Android/database/ entity/	SyncItemEntity.kt	65104a2a18d26d070e53198efd6cdb2194c3af65 7689c926c341d44174faeb0e
Android/database/ entity/	WalletEntity.kt	6f8ee8e0a1658c5c88c25689a45d3ef94af235d52 994037ef39ff55be5d30e8b
Android/database/ entity/	DAppSearchHistoryEntity.kt	0826043e924f4ec22416116dddfc6dd666e1672a7 73e9dac53677b65c73f7ea6
Android/database/ entity/	WalletCoinEntity.kt	f8e5947a65ab8e172ddf02bfbe61c8d550b43c5eb d359746c8768b4c5875f852
Android/database/ dao/	TxLogDao.kt	3d8f85287a44213cc6d0662f04068e090d9f96b21 1353e6d017fa7136f260ba0
Android/database/ dao/	AddressDao.kt	5b2b478a98f8242c07352a0ebb6eab4d69248ece 29807ad953229b7cd0bdb868
Android/database/ dao/	MessageDao.kt	e15487959f8bf2732c0a05e6a07081ee4b38825d 719cde98ae6602e501d431aa
Android/database/ dao/	SyncDao.kt	5cfca79af0e7e2e518b32b1f3cb610e8752a9458c 0a2e908659ef9af7844761b
Android/database/ dao/	DAppDao.kt	fef8d9317ed1a8cfbe870233323c40471e87d67ce 168cb5666a702d402055db8
Android/database/ dao/	KVDao.kt	f6d0c456d1af9f6eb4f6b31fdc7a6ca9b99ebdc689 bc1d1160186f4c08b31666
Android/database/ dao/	WalletDao.kt	e32d5145ce7fa284f740d2a99f72a8c8f242c7b1d0 f4af06bfe837f14def4cf6
Android/database/ utils/	WalletSQLiteOpenHelper.kt	04e10b3afe29b1d4426c4f117fbeb73063db650ea 50d99176f3339bf5af13b0b
Android/database/ view/	WalletView.kt	f8c15d54f33a4e03bfa3993d1ebb2d4c91b7037e7 d7101655267666208040af1
Android/database/ view/	ClosedCoinView.kt	16a0d9142e73346f37a8a9c3ba72bb0481bf06de 1382d80743054b6ef00c8429
Android/database/ view/	JoindChainAddressView.kt	f0b47ee031685465fca2551b4943fbeedc44f0525 9c0f18acfdeba143f7c633d
Android/database/ view/	JoinedChainSegWitAddressView. kt	49d3ebda733473f59a3ae09db9b3ac234a306ec3 bec1d7a2639d1af5696e6cb7
Android/database/ view/	JoindCoinView.kt	ba06d04d4bc1ec38f2cf47fe3a2ca25549101e34e 46960512d3ec769cdbfd938
Android/database/ view/	JoindDefiView.kt	b42a35aad33e2afe9ab8427cacaec7b58b58779d 6ab5e3af7af0e0a015078f5a

ID	文件	SHA-256 checksum
Android/database/ view/	OpenedCoinView.kt	c48fce55152529d27d75f9110328139c299ccedc2 6235be624c4b0853a5f6267
Android/database/ view/	JoinedNftView.kt	b95c02416042084818a78f421c3b5bb4b3de70ae d050438444c2a3db885c9eb7
Android/database/ view/	RootWalletView.kt	f3d02505789a855d1e3a59e350d1509e07e9c742 adac6d01aeaf0b6b5d3d1cde
Android/database/ view/	JoindSepInfosView.kt	b119740b4e2b698a754036277defbbac3fbd55e5 97e3a8b1b29c5696d52a7a28
Android/database/ address_book/ repository/	WalletSendCoinRecordRepositor y.kt	5ad5e18235a95c29c78f300a567de00516fa393d 01fa835178fe031a0bfd6227
Android/database/ address_book/ repository/	IWalletSendCoinRecordRepositor y.kt	b8774fa89dbeda604423ca566c047cd34ee60ca6 1df95215a5cec6323ae98d33
Android/database/ address_book/ repository/	IWalletAddressBookRepository.kt	33e87adb1d5d81dbbe744bf085205d11b2a7c429 528b89f91b27520653d05bef
Android/database/ address_book/ repository/	WalletAddressBookRepository.kt	a9537ecaee6e7ee6d8e368dc1dfba965bf7ae7c0c 503471b846761beb3fe2e2b
Android/database/	SendCoinRecordEntity.kt	9601159b2710498b0470660fd13bbb3db671b72e f7bf01018ed228d0858a58c5
Android/database/	AddressBookEntity.kt	351a387e9fee8b276a55b9bc4e612828d35f3164 227133cc2e8a6314132272e2
Android/database/ address_book/dao/	AddressBookDao.kt	4dd10278a6929b99826fa8be0e7f2b71e3f8dbff5e dd95dc1198df8baebd1196
Android/database/ address_book/dao/	SendCoinRecordDao.kt	6849858090acbe5ef6ba9c55a96aa6a654cb6534 ba264955a116d87a2441bd61
Android/database/ address_book/	WalletAddressBookDatabase.kt	91ff11ab4d2fe70fd0b6779fe4ff697d683682b2acb bde72020fb859dde7ca3f
Android/database/ address_book/	WalletAddressBookManager.kt	48de3c2d2b345bf614496fbc994bfdf164842e6ab 5d2b33b8d16d2cd2d0ad9b9
Android/database/ address_book/	WalletSendCoinRecordManager. kt	0aa2d3aa95c45bb7ab959879ce881b0302073c6a ce322a3e2b7713d09172097c
Android/database/ migration/	FlutterWalletDBHelper.kt	bf69ed240ef230d70a64ced7fad3e1c129eaf5ca52 3bb903fe94879be1385e58
Android/database/ migration/	TableChainAddressMigration.kt	643b454473e39dc9d97e9c40f783c0b50e6b20e1 5126fcd9ccd403bf45c7aa57
Android/database/ migration/	WalletDBMigrationWorker.kt	eb0d645dd11dd503b5b9f533353829d15b39f4f72 a667eab62c42d39a65328a1
Android/database/ migration/	TableMessageMigration.kt	b3b686d3808c8c941e8c3026b3c49643074a814d aae35c6002dc2cb85ade1cdd
Android/database/ migration/	TableAddressMigration.kt	458259ec8d82a09a2c16a83e530f8a7471bb9b70 6fe018c3dcc4b015009ed052
Android/database/ migration/	TableKeyValuesMigration.kt	dfd93c1c4332ea2d577224585a4571aa0dc97ce0 78ee3dab9fc4807d362a64fa
Android/database/ migration/	TableWalletMigration.kt	2d50b529973b80f68f847588fd346b4859cefd511 3e08f46af90a228d19163a2

ID	文件	SHA-256 checksum
Android/database/ migration/	IMigration.kt	b321b664bd793d08b6368a8f68856634185aafa1 70e575296694959ac6262c2d
Android/database/ migration/	TableSyncMigration.kt	aa63e79f2ece5484bb6a9949577265d4928b2e18 184eccc64d8061c5372de6d2
Android/database/ migration/	TableCoinMigration.kt	5d650d47960ac133f678ad9aae1dffaffc33b41cb7 add2812ecaa6bcf837c311
Android/database/ migration/	TableSepInfoMigration.kt	6ab55418551ea6e715df4f019d54a01ee69243e0 b1a245b48e07c2bb1f93c5db
Android/database/ migration/	TableEOSInfoMigration.kt	2e942552272635a755280747992215629ef9c16a 3d079fbccab8b7ec6c95332f
Android/database/	WalletDatabase.kt	cefae4dda49c30514f5a4217b81ee432252b3b40 90b96419ddfcfa02537594cf
Android/interaction/ impl/	EvmDappSignInteraction.kt	f9b707aa3cb842b8fcb194f627f65ee6b6f06c0e0fd 072f248f7ed9d7d2c3917
Android/interaction/ impl/	SolDappInteraction.kt	0ae97a6abba80dae9eb144b9c90ac61e8384b0d 796c81886d2186ee63f938eb9
Android/interaction/ impl/	TrxDappInteraction.kt	218754c74ef5e6ea555276bb939874852fd1debc 5fd6e31b325722420540b111
Android/interaction/ impl/	SolDappSignInteraction.kt	70610940f3ce0f1c4f4305dca29924b01d201d15e 0d255c8e5956e7135d02d9e
Android/interaction/ impl/	EvmDappInteraction.kt	c970aa2171be3d3c00cf2efcadad9b91ac7265c3f 269679b55fbc1912a0b6b46
Android/interaction/ impl/	TrxDappSignInteraction.kt	3dd4f81629267822a1f03ea2171922fb32ba70115 a8ec197dc84bda58993d62e
Android/interaction/ bean/	DappSignInfo.kt	04af801b85530ccd79fc9bcce15c0864faa49c639f 2c8d05875496af4870a633
Android/interaction/ bean/	DappInteractionFeeInfo.kt	b460b9db8cea9094db4b19f1158fdd48ba865590 a35012a1337e6ec254c660e9
Android/interaction/ bean/	DappInteractionResult.kt	dfe112a1e7749c75de60e505b82494be2bd9e51d 7d415568f14e4b4caf0be396
Android/interaction/ bean/	DappTxResultBean.kt	9ad1d138e26ebf84db6a427655f8b741218b361b 16799132e25ac8fdf37a9376
Android/interaction/	DappBaseInteraction.kt	350a7fe333bc4b6d3c37828e06e055f3af5155478 081a230076ca3ce58aec602
Android/interaction/	DappBaseSignInteraction.kt	cb11ddf60881bfdc7023300ba05316fd256ac76ed 967934ae2c863cd065297e3
Android/interaction/	DappInteractionFactory.kt	3cc22bd528efe5dd869553e2fdf8499a12c7ed3f37 0bb3b9e794791f5cb10a26

3.2 IOS

ID	文件	SHA-256 checksum
AFNetworking-4.0.1	AFHTTPSessionManager.m	b74fcb9cdab6f88689517d7677650db114288f0cd 7d1794e3d4175f43821dd5e
AFNetworking-4.0.1	AFNetworkReachabilityManager. m	1cd57348a69a4faa6c1e0f8facfc95530c48f93c7a 544700cb6542b647a1bfda
AFNetworking-4.0.1	AFSecurityPolicy.m	1e942f9bcf388b59c7f6a6440f332ba8dd3eaad93 ac24854ed29913993926466
AFNetworking-4.0.1	AFURLRequestSerialization.m	4b8442055844327593d5025e18e6fdde860309e6 c12d71f28673ba2cf2d9d190
AFNetworking-4.0.1	AFURLResponseSerialization.m	a8d3826d2046ee693e80c4e318cf3e5a4b8396c3 5479dc1025946932e19e8918
AFNetworking-4.0.1	AFURLSessionManager.m	9e3db7d740358ba0e5fedfb70747eb8b2bad9ebb 744fd434e129f4347906f906
	OKBAsyncLoader.m	6ac6b5c81c44b66c0cf816eee3860971ece90df55 949458155da9a7c410d0d39
	OKFAPIBaseManager.m	b0a8aff8e98cee5f7b69395508c1669bedac8908a b24b41abb71545ab4a39391
	OKFAPIURLRequest.m	c9db82d6dddc854fa32338a7c7a6426474d9086a ac2607eabcbf8b520cc71eb9
	OKFAPIURLResponse.m	2dacec3eb0b48131ccb4eb6745a738dce558ecc6 df8d0e26dd5aad7da8975210
	OKFRequest.m	dd22f8733a79cf35fadeefb15a6384a92950200be 8ff5e5eaf8128c5bc6e2c32
	OKWApiService.m	b1b08d1ea4080dbeb3dad3db0e7a5400790a19f7 4625ea1d2280a31edb7e3f66
	OKWBridge.m	8a6046baa0db943c17cce628bad850931ddbe0f2 43ccbd7d0c166873ac769196
	OKWDataBaseManager.m	e26c013f801e1f414016e7c89bdaed2035672b7c5 2066d102cfc03c9bfbc3a2a
	OKWMnemonic.m	8f48f85015ef54c968034bb54f3d1013039906ad8 823b4e3fa404227abcb8872
	OKWSchema.m	87d2781e32077a8668238d2c88bbfb0973574f2e 636286b09f17b74287d13f08
	OKWWalletManager.m	df9c223cb420df4cda061a4d3f314a3c93e959507 af90631bac22370051fa951

3.3 Wallet-Core

ID	文件	SHA-256 checksum
Wallet-Core/build	gomobile	ee66cfa3fbe19606515f92cdf3c8c9118ac49799d7 f0883ed6780121f0df5590
Wallet-Core/build	index_test.go	7e1f0717cc427bb6462210e50e17ba86a9c7fda60 512ca5ebc9df53edc410821
Wallet-Core/build	index.go	3ffa7f07836b18e9ce19aca8ec13fa24c09bfdd657 eca2b8477616758cf2adea
Wallet-Core/build	makefile	ff6d1bbf9af2d7128134ffa7ef4d5ca92d8090aeb9d 8cdae2ff778f30aa6fa78
Wallet-Core/build	nft.go	7c79bd4439c8aadd76ee10cb172126fbd7e9c54d e3f549975972e6c58f174484
Wallet-Core/build	patch_286.go	cbd8615750b818990426821e0467f00695b7a8e3 5fce6ce694ce7f87e725b1da
Wallet-Core/build/ test	base_test.go	40b316f8e15d476ee6486a4db6299bdb6d2c3c17 67fbe26daa4194b0bc5eebf1
Wallet-Core/build/ test	cosmos_test.go	460a636e4618fe06500cf300273c80b900e1f9d77 e601ec7a4bbe30d84acb8b3
Wallet-Core/build/ test	elrond_test.go	6ec965de2881e6684ce66ba8717de45846d4993 2f122b1c9f298891d5af44e34
Wallet-Core/build/ test	eos_test.go	54133c5536563812011641746753ca8fbb61eb1fe 43ed811486e5debd90916d8
Wallet-Core/build/ test	harmony_test.go	3abcf03be631aec78c1e9a70c918f11f299478850 88989b1df365b335d061f94
Wallet-Core/build/ test	near_test.go	3abcf03be631aec78c1e9a70c918f11f299478850 88989b1df365b335d061f94
Wallet-Core/build/ test	okt_test.go	eb339f68cdf6150eb1c2943b71116584ea612ee28 bf134a9eda817ac14ff56fb
Wallet-Core/build/ test	polkadot_test.go	f260de088d23dbc86c609a3e92ae111a6d0533d2 d2da29740d4f579408475eb0
Wallet-Core/build/ test	solana_test.go	03dc078611b80a289ace4aaf6c3cdd248a0416cf8 85f37b2c6226805cfe2049b
Wallet-Core/build/ test	starknet_test.go	81be78f9eb80bd8b0622e8f8a60402f382edcf31e dbeca3831eb2c7155135bd4
Wallet-Core/build/ test	tezos_test.go	c3ddca2c76d711cd91147b9ceea031709bb280fe 07a59a99547e91bf8e5aaf94
Wallet-Core/coin	achain_test.go	e749b81b33d20078cba185231abae6e3e5a628d d2d310c1a749d42167cad5e87
Wallet-Core/coin	achain.go	154b2bf85a4d4a86b3165a3af0600079d517ae24 93b90ab670abe1e3922196d9
Wallet-Core/coin	ark_test.go	727cf665d0e03e9537a0a892cbea530d058b339c b81231684708d170b34146cc

ID	文件	SHA-256 checksum
Wallet-Core/coin	ark.go	afece9ef587d0f6cf72ae6ebadb2e10229c7c8a17f d6f5564022378cefaae2a9
Wallet-Core/coin	bitcoin.go	457ff99eaee63427b84a3c9fe68c4cc83fc1700e25 000d3d761fd740daa81cc2
Wallet-Core/coin	bitcoincash_test.go	3097233072c2f9d6dcc8473c9e7c587581c86e51 602b593cca14c18b978e50a3
Wallet-Core/coin	bitcoincash.go	7929cdda6272aae54ed8abf907e128cb923c3289 98a7121a204dbff7837a4635
Wallet-Core/coin	bitcoingold.go	559c4875cc4080b651eab933c183aa49940676eb 7513f9ccfdd1ee119db6fd08
Wallet-Core/coin	bitcointest.go	6b3b158d5cc489fade6ade561f51329bf9e2b839f 352f74ac68e8beb45e13a7f
Wallet-Core/coin	bsc_test.go	30d94cf380f2ce7855d211bd9d40f8e673d174734 e83e99200fca3bd376df501
Wallet-Core/coin	bsc_token_test.go	5e5185788a6b4609e764e291947a40d03ee97ebf 4813825a159d24becc78a3e3
Wallet-Core/coin	bsc_token.go	dd26252e7b27e894919f439dc386f253be6b43b3 9897439b916b18c79d3559f1
Wallet-Core/coin	bsc.go	0b154fdc3654a36025e7bcc2b4a3eab6a5e67223f 7007a5ce988dc7392622ed7
Wallet-Core/coin	cosmos.go	ceb481b89427455046a1383ba3772294523ac4b 5bd473f7d04f8d72fce6a3cd0
Wallet-Core/coin	ctxc_test.go	a0b3bcfcb50acd31bb6d6be48169cc0878646b5b d38eb86ea96f36a272e0e12b
Wallet-Core/coin	ctxc.go	0b0563f8dedbf2bc0017256613a327b4a6fc7f89c7 e2ee6887c1d5fcb27ddf6b
Wallet-Core/coin	dash.go	0db7809b93a11a052e0d3eeb78ac0cab494c4ce0 a550bd4de6da79087f012991
Wallet-Core/coin	digibyte.go	3123be0798a7fbd7ec27c97f7a95aa2375fdfced9e 6ab2424e4b70f38a7911be
Wallet-Core/coin	elrond.go	8f19a2b8370c9e3dbb56acf9a9610b7c7a0fed4c6 75fe8fad33fe855aa8d1f7d
Wallet-Core/coin	eos_test.go	908215706ebc31cf44364a1f36c15cbddcdf8f032a 2314e19b0eb2b046151c65
Wallet-Core/coin	eos.go	d83ecfc56303c0371892c010eb8de51e4e1be6de d9b94a1dd6893ba48f5278a8
Wallet-Core/coin	etc_test.go	08e36bd0a66dc49d124062b6a3ce1546ce40149a 9b3ed384b1b0db59d27dc292
Wallet-Core/coin	etc.go	781d2e0f83d15d0751e09bf04835fe9bd7e0977a0 c64dbd304c06b4968a5f4b8
Wallet-Core/coin	eth_test.go	6460f3595816e7cdb660ec3aa572bcf23d68f493b 0bdce2920ab8c7e20cd79da
Wallet-Core/coin	eth_token_test.go	405930954fda77b026649dae772254bc91e529db b6bb21059883f7c81e91a35c

ID	文件	SHA-256 checksum
Wallet-Core/coin	eth_token.go	9c6d6a73318c8ddf79091a7745aa83ffdb1858288 0f47fd98005145a0cb8f197
Wallet-Core/coin	eth.go	20f33a4ddc29e89771cbe8bd39e8ab96c37090b9 018d8dfa5da3af113e39c605
Wallet-Core/coin	evm_token.go	1d424ffc5e5e27da0850ffc335b8a94bde144c13af d44514cff68f415b4cd3bd
Wallet-Core/coin	evm.go	aea0ef9d95beb9fe14ef9532f7e5ae12b7ba9e16fb 71e27980f846da4ac01146
Wallet-Core/coin	evmos.go	f3ac8bd896dfbd7cc6df9ccda90fa364b0a8423d94 ea5b1af1f07559f92f6b8b
Wallet-Core/coin	flow.go	6460f3595816e7cdb660ec3aa572bcf23d68f493b 0bdce2920ab8c7e20cd79da
Wallet-Core/coin	harmony.go	f3ac8bd896dfbd7cc6df9ccda90fa364b0a8423d94 ea5b1af1f07559f92f6b8b
Wallet-Core/coin	icx_test.go	1ee1ff63585b007d6f4575ec7db9a01101173b844 12f59e3d074dbd10b293acf
Wallet-Core/coin	icx.go	f428e5ad5974e54ffbfc8b18cf531f3a773b7d907a af8e74eae7e8c68375efa4
Wallet-Core/coin	litecoin.go	3ad494b602a5240c02ad3c132439f987e7031e44 73dbef4b943c6268323296ec
Wallet-Core/coin	nas_test.go	db4774d12167486e1910edfa392ddd63c82b96f5 835c64e8e1752d5cfa3cf693
Wallet-Core/coin	nas.go	6bc7620159348a82ae9d7f87c09f4549abb3ddfec cc8a6dc10ccf1dd2ae7fd91
Wallet-Core/coin	near.go	c391344cdcabb8d65b8b89f6a283388770ac28a3f 3ff44cf8980b2904bf3a72a
Wallet-Core/coin	neo.go	2e53579ac1fa36b9ba29ece552db744bdfd1f4b14 cc8b2bcfecd5f29e6b57fcc
Wallet-Core/coin	okp_test.go	4d6423f4c1f552b1dae6b198b2ddaf94ca24d4f43 bc43d274e281ef3b0dae4b5
Wallet-Core/coin	okp.go	288d805ab307181410c78ea62e0a3085e153a54 18ba13456093079b4ae56d6b1
Wallet-Core/coin	okt_test.go	3105bb2fde1e87626f27f74536a343d80ba321b1b 99294682d8c86cc66052278
Wallet-Core/coin	okt_token.go	4080bd1b633549b6a0a4cd45aa9432c10a43bf4b 20e401a781e8be2f46870d03
Wallet-Core/coin	okt.go	0ad559610dc8aa80aae5af5fb8c635e671141da79 01d4134d743ebd463b87495
Wallet-Core/coin	ont.go	3e131f419d88df024f39ba22eac303245cb82e6e5 99f41e65235be38178448a7
Wallet-Core/coin	polkadot.go	4970ca63c6b391a49c32b750111d24205acbb33b 1a563b07a81ffd41e2430038
Wallet-Core/coin	polygon.go	c90f2f6e401216526cce9c076030ebaa623297f9f6 fceef5c7c7d038082de4c6

ID	文件	SHA-256 checksum
Wallet-Core/coin	polygon_token.go	62eec4d805af28133824a185aebeb5e9698f0b0fe b92deed39250c21268c431a
Wallet-Core/coin	qtum_token.go	781649f31d0f0bb5da2a27a718de5515252fab618 4022ef10f3a3daf66332113
Wallet-Core/coin	qtum.go	404add648b68c66b254589c21b54304209ea461 7d83144906457cd10b4506d6a
Wallet-Core/coin	ronin_token.go	621a5ed0858bfde11cca9466621af1ec2dbeca57c b408f367940a10cea3f5207
Wallet-Core/coin	ronin.go	ad2969431ff5bcb7e8ff624a18fe12c4efcb74cb4cd f27ab7a3206fcebb5dea4
Wallet-Core/coin/ sign	dot.go	1b762f58bd03d428a35313de5e10755474ab7078 67c7c8d6e41c74d489698593
Wallet-Core/coin/ sign	eip712.go	dfbf6944db7c4caa8c847521e939a49f54869ebe2 971c076454c81c9f0d16701
Wallet-Core/coin/ sign	eth.go	1e76c21802163c74de1da144274fe57c1d57db0a 5213234203de8684a04cbbde
Wallet-Core/coin/ sign	op.go	3aae434803a5741e324b32505066b60ab6c959d 1a2c89aa35569d33b5f65f222
Wallet-Core/coin/ sign	tron.go	ad4949a1401afbc791e59b909c9b3ba444bc68a4 2b238aa99d1a012fc15aaf80
Wallet-Core/coin	solana.go	57380e9740e7f5dcf44828f9991ff6f3029b399cd1f 3876393af081c48c1c78d
Wallet-Core/coin	solana_test.go	03e3947e27e5cfa86ca74cdc14b21e3b5fffb9f112 2ab046611b47136e40ef10
Wallet-Core/coin	starknet.go	ea186ac4313436b5cfeef8438ec80bd0fcb98242d da3cd221f68d5e1e6938c3e
Wallet-Core/coin	starknet_const.go	f34cfb5d439a032dd576322e99a8762069bbf5904 296b8f15ffa3663dc2ecc5f
Wallet-Core/coin	tezos.go	0f787edafca45109e75d3c5d58f96300caa987ed4f 313c1c983a218912a7584c
Wallet-Core/coin/ transaction/act	act_tx.go	331a97c5fb7939c10882dc4793e3d21a3c983bca 39210f83a0650c9e34a5811c
Wallet-Core/coin/ transaction/act	act_tx_test.go	dc328fad88783e18e49f9e31b9167a16d70685eb b159b370b6f3d7cabfb62685
Wallet-Core/coin/ transaction/act	condition.go	7a1ab903a54a7ec1b0b04212009090158e92c78 bc827c52d1ee2b8bb199d2aae
Wallet-Core/coin/ transaction/act	condition_test.go	98d40c0dc73a4848b586e63a10fa18f0288abcf84 0697c9f5231c84db5969c4f
Wallet-Core/coin/ transaction/act	encoder.go	783bc909db77fdf4c64d28df650ebdc28b2ebcde9 0cd10c32f6cff1d00b2d292
Wallet-Core/coin/ transaction/act	encoder_test.go	98d40c0dc73a4848b586e63a10fa18f0288abcf84 0697c9f5231c84db5969c4f
Wallet-Core/coin/ transaction	ark_tx.go	6939be53685ab8abd55027f6ec55e709d9b3a579 5c574a606f224473df7882ed

ID	文件	SHA-256 checksum
Wallet-Core/coin/ transaction/bch/ bchutil	address.go	7992ba5f221035275eb365eea084c620607c7e5c 45bf1432176dea090f40c77b
Wallet-Core/coin/ transaction/bch/ bchutil	bitpayaddr.go	d78dfbdd66ee7c95be23f269a0eef236bf9a68699f 13bad5b70530979d647cc5
Wallet-Core/coin/ transaction/bch/ bchutil	bitpayaddr_test.go	4c082b84e03fa01fe26eae49119729c51cdd5a1d8 fd5ae501298075ae7442266
Wallet-Core/coin/ transaction/bch/ bchutilWallet-Core/	cashaddr.go	4c082b84e03fa01fe26eae49119729c51cdd5a1d8 fd5ae501298075ae7442266
Wallet-Core/coin/ transaction/bch/ bchutil	cashaddr_test.go	4c082b84e03fa01fe26eae49119729c51cdd5a1d8 fd5ae501298075ae7442266
Wallet-Core/coin/ transaction/bch/ bchutil	protocol.go	f60523c277d7dad431d926c6f36cc4249c234cfc4 5be8728516293d730eca30f
Wallet-Core/coin/ transaction/bch/ bchutil	seeds.go	f99f384263bc56ef8763391a1969bbf70d558dce6 08abb14107a5c2c95b8b7e2
Wallet-Core/coin/ transaction/bch/ bchutil	sign.go	0527828ca260ed0011bc86689d22c1fb4b914a84 11454cd564c13eee18ccf84b
Wallet-Core/coin/ transaction/bch/ bchutil	sign_test.go	a027c72c16d134f6d9514acf021ad0a0f4d1d406b 9473c4441f2dd8600b0fa85
Wallet-Core/coin/ transaction/bitcoin	bech32.go	c901827c57ef8ed54dcd1818694ef2273a17a60f0 1a01132b67c993e19347d12
Wallet-Core/coin/ transaction/eos	buyram.go	151b3e23351d208557f4d0726296b7d3cf067b3fe 9f7a617518a1f9321f24b81
Wallet-Core/coin/ transaction/eos	bw.go	11e98e5e300cc8e93c4d9bb3db99e5c61153c29a c75c7c75028edd9514a72e3d
Wallet-Core/coin/ transaction/eos	decoder.go	22d5400bfdd19fd716e6df98c9ddf7f7f88101ba31 e89009ab229da4af5a850b
Wallet-Core/coin/ transaction/eos	encoder.go	51b8b786f0ed76193b7f4aee7ea256f5e83815ef0 36f1cf34b491e9ccd0a66ff
Wallet-Core/coin/ transaction/eos	eos_tx.go	70310e17b1b40a7af68813af64042a00bfe9a7fa0 44fea6bb7fba7ad479e0d85
Wallet-Core/coin/ transaction/eos	eos_tx_test.go	e17cb486092aa543c9b22721d54bb0754b73479 7949050daea0cd1b58a883421
Wallet-Core/coin/ transaction/eos	name.go	d63a5470cd1777fe931601f68a99ecd68db481ae bb29d23cb42cf87f7aad8887
Wallet-Core/coin/ transaction/eos	newaccount.go	094dbcd3878727e8fb7f47534aa396a789bd9d4f8 cd10d7d492b3ea5db35a83a
Wallet-Core/coin/ transaction/eos	pubkey.go	1536719639950f7b9a9252e7732118cc38631c04 641fee722aeaa2fce57dbb8e
Wallet-Core/coin/ transaction/eos	sellram.go	e889e57b66ed3c0186cf4d962dfe0920bb8af7bdb 8696f9294a1fcd0ec32659c

ID	文件	SHA-256 checksum
Wallet-Core/coin/ transaction/eos	transfer.go	4d3b201b1869cacba8de9efca4de65ee9006ae65 ca1e608321fb163bb8f8e095
Wallet-Core/coin/ transaction/eos	tx_factory.go	e04d693bdb6888c94613237b0421ced13eb64a3 bb76d8ccd1de92a287202f76b
Wallet-Core/coin/ transaction	eth_tx.go	727a90af04be96f49739e8dc930fe3f7d5dee2194 349627f1d8376394344f782
Wallet-Core/coin/ transaction	ethsign.go	7e9689f07aced6922585016b848298976bc3405f 4387a18509af9cb3022e83e2
Wallet-Core/coin/ transaction	icx_tx.go	9e65e0ac861454121eb9463f1f4fd826b4b7a7a7c 87d7381c5e52693819be9ef
Wallet-Core/coin/ transaction/nas	base58.go	15b9c045335a659611ade5d1e3b2bcb4fd951916 4ec56c447f736365521e2409
Wallet-Core/coin/ transaction/nas	block.pb.go	2b971c09b6646220ef97f92f2c17199301a24df0c7 1bc259bcd44e7c8d892fe7
Wallet-Core/coin/ transaction/nas	nas_tx.go	d86ff34e522899c50c7dce7c983bc7e9c24d5768e fb89a6f20d2ad830b2b0232
Wallet-Core/coin/ transaction/nas	nas_tx_test.go	5d2caf3748466b1deea16af77e7e4bbf7ce0dafdd 18c21a00bd04bc5af3ba199
Wallet-Core/coin/ transaction/neo	bigint.go	7a00bd2b5772f2870a83f55455e772310cd0a795 3fb60edb521ed606f4202808
Wallet-Core/coin/ transaction/neo	neo_tx.go	12acb3fdb9016633446c31b1eab14d71764db76b 3839b96da56a19a860aa6d59
Wallet-Core/coin/ transaction/neo	opcode.go	1782ab0b3e3e8463079e46337e2a659532a7dcd a4bcde95856c42fc99b6eafaa
Wallet-Core/coin/ transaction/neo	params_builder.go	ab1cd66adb7a4f7cd810b11e86811929f8d11bd91 5ec909a91552f80bab69b02
Wallet-Core/coin/ transaction/	okp_tx.go	05ae27e0a2a0ff0b68da4df351065ee1826f2479a e8a33b0c8b6680ad6bf1f2c
Wallet-Core/coin/ transaction/okt	address.go	36ce0dcaf56a915c25afa676f5d19f7516118e962f 778f1468339d4ddf9fd3da
Wallet-Core/coin/ transaction/okt	codec.go	ab51a5411e78f93f7c187976143e32abb1abaf24f 0abc506a93dae15b6e46d6f
Wallet-Core/coin/ transaction/okt	dec_coin.go	9ff8efcc5ae903567a2d83b5ae75ff9c2f24053f87d baa84616b8cde721f7ecd
Wallet-Core/coin/ transaction/okt	decimal.go	e7628968d6d6056bb87c30dec423dd23b5615d9 8357f72de971e4ae64e31da1c
Wallet-Core/coin/ transaction/okt	int.go	6d2f049156828dfbcbb5cd16651ae9a2ca79127b0 bc349656bc62ac5018629f0
Wallet-Core/coin/ transaction/okt	key.go	19447ac08641c8bdeffc2c10d71a9f92700d6e807 76b902fee087afc2c95247c
Wallet-Core/coin/ transaction/okt	module.go	aba40117bcaae1d180cef0ede60b72c4fa74f2880 8193dbff196a05cfc1f6121
Wallet-Core/coin/ transaction/okt	msg.go	b6d2b55d33664a2638cb12447b12f90a8a72682f 170f24e3818af5b070182b06

ID	文件	SHA-256 checksum
Wallet-Core/coin/ transaction/okt	sign.go	a74338c1ce0dd79badeb11c8a998292dfb96ea3b 71d0b0a05cf18723e1e58660
Wallet-Core/coin/ transaction/okt	std_tx.go	15c7f5f8dcb594dd5e30477a2bb35463c9bc39fd7 4fddc54d4296562c4fd2b1c
Wallet-Core/coin/ transaction/okt	stdsignmsg.go	25d09f026b9b63290028849d2325fcee6fca76374 6714b1c0ef77b05a822a2bc
Wallet-Core/coin/ transaction/okt	tx.go	db257018bb567634f9dddfca3cd699f45b00c90e6 88800f2fbb0556d8aa1c8eb
Wallet-Core/coin/ transaction/okt	tx_test.go	18746365c361311bd2395808ed908de04061439 53c0219f85eed95a29f4141b0
Wallet-Core/coin/ transaction/okt	types.go	046ef8e7efdb167ac9f2ca734d071821bb0e7072e 952395ece79cbae5b1ff8d7
Wallet-Core/coin/ transaction/okt	utils.go	acf6a000aae34954fd27143d278ab6e124e9a55e 17a827ede62eebf175b294b7
Wallet-Core/coin/ transaction/	ont_tx.go	de014e05abec0d0ed2ee9e7b67be0cb5728aa2ecb3bd507cac2fe34c9fcbb54c
Wallet-Core/coin/ transaction/token	abi.go	6c9047045cec5982aab045a17eda92f03892d069f c7ab6ab23724c393f0107f4
Wallet-Core/coin/ transaction/token	big.go	9fe14d3310ebab4c595c60659ff59e1a92e86d616 886a8ffe5b2b11d0ef4d980
Wallet-Core/coin/ transaction/token	ethtoken.go	67d4f814d3007865313a4baa5feefbf07d0cc3495 956bd9617d9033c45814d34
Wallet-Core/coin/ transaction/tron	Discover.pb.go	1191cfbfbbc13083414b5296a8a0c4371bff546bba 0bed0cf7092851fde68f37
Wallet-Core/coin/ transaction/tron	Tron.pb.go	cec98cafc6cb1419f9e09284534176ce32e512e3f 083487b4e9f53ca6603eb0b
Wallet-Core/coin/ transaction/tron	TronInventoryItems.pb.go	b99e48fbedd52126888fc4743d07e41aab7eb67a 71c04e027c720ba1903923d5
Wallet-Core/coin/ transaction/tron	account_contract.pb.go	b2632d18c42b6547dd46a0078a56aff923c6bc9ca 66e79673bd9cc6d9a6f6f6d
Wallet-Core/coin/ transaction/tron	api.pb.go	f1e858706afe14163b31226289a4b9cb7860d289 5bc150fed630bc15ef839632
Wallet-Core/coin/ transaction/tron	api_grpc.pb.go	ebe9b723f473755eca3dc5f04aaa9fecca717c60d 5edffe17de3bd2654bbc12e
Wallet-Core/coin/ transaction/tron	asset_issue_contract.pb.go	cb7038a37f3e09adbc00e0fecf4ae9104fcd855daf ee93a6dfcd981f399f7115
Wallet-Core/coin/ transaction/tron	balance_contract.pb.go	9a16e3a581ad33cc109305440e94ff2c1e5c0bc85 aa8c0cfee54b1575f2a9bd5
Wallet-Core/coin/ transaction/tron	common.pb.go	0c596820266b49d5e22a86bf632e97b435ea7582 9bdd9d2f11c19f0867f04e6d
Wallet-Core/coin/ transaction/tron	exchange_contract.pb.go	b7eeb218611a8841d0ada9a42be342a117dc08a9 27bd57b7444acb58bf492310
Wallet-Core/coin/ transaction/tron	market_contract.pb.go	7cfa0fde5e7195f088d6216f4671157b5f5f116eec6 4e3b396c17abdacc86f78

ID	文件	SHA-256 checksum
Wallet-Core/coin/ transaction/tron	proposal_contract.pb.go	54209e3d5dc942bbaf1aacea0653253df460b200 972a3be0a2ef923b1252a4f6
Wallet-Core/coin/ transaction/tron	shield_contract.pb.go	0aa947ab7d006b4c315704d7318c80cf01a8e76e 9218f192a58806d2c5136b75
Wallet-Core/coin/ transaction/tron	smart_contract.pb.go	33014e47b1dd029e3e3f481a48000e403af1308c eeef0f1f1abfd6bd519855be
Wallet-Core/coin/ transaction/tron	storage_contract.pb.go	0bcbb0013eb8186404489609ecf71bc0e88f30deb 12acd05f1ac6ba6d337f4a3
Wallet-Core/coin/ transaction/tron	vote_asset_contract.pb.go	e6fda6ace39842f0e6a8c1f211261b5f4b94c1ebcc 885aa9c7bfa75176ebdca7
Wallet-Core/coin/ transaction/tron	witness_contract.pb.go	f9e328c5f24ec31a1451565fb5ed7a37c7de86298 07affdca0be6e9c40da2fbc
Wallet-Core/coin/ transaction	utxosign.go	658f136a163071323795fa95461f7d9ef37485324 1104360919cb6d34b9c3007
Wallet-Core/coin/ transaction/zes	common.go	f516da2f326a41cd3fdcc2f4f4462bea51f8c15a032 9d1f6c91a7535fcc00434
Wallet-Core/coin/ transaction/zes	common_test.go	61b34a6a6325f43f537e970912ef625fc8761410b 9682c0cba8d9d64e183f294
Wallet-Core/coin/ transaction/zes	hash.go	315c0698dfb2779f8fb498c5376d11c0765baccec b237c26fc124bcb7cd77804
Wallet-Core/coin/ transaction/zes	hashcache.go	a31870880c1adf54aa9c1b92a84b6b0a642dd37b 631cda282d25b439514ae813
Wallet-Core/coin/ transaction/zes	msgtx.go	46754cc48c47be52add0f7b4e419484e04694ede 85d112f8dad30a02479b54a0
Wallet-Core/coin/ transaction/zes	sign.go	98e6a9580d99c3273995b687152b33fa356ac0bb 92fe3201ed3aa0ff1cbeb198
Wallet-Core/coin	tron.go	6d220298e8f35ce716c499b1c322f5236c54c800e ee6c8c512d1bec746dbcae1
Wallet-Core/coin	tron_test.go	34c68448ef71ee272f4c4a1fa3566cc607f2e6f16b b7b3d3cbe030dac2bc88bb
Wallet-Core/coin	tron_token.go	5e5185788a6b4609e764e291947a40d03ee97ebf 4813825a159d24becc78a3e3
Wallet-Core/coin	tron_token_test.go	b224a35e78424cb1bdbf7d8a3143185fb6e530ad aa39926ff2115ab7037a2c7b
Wallet-Core/coin	usdt.go	fca9ef7187f0362069bf3f786845f4aafd4db848ece af3e0eb89cf11aec9ba1c
Wallet-Core/coin	wallet.go	8bd4f61b50db747e0360239598a39f05a8cef7ac6 609cd203356cf19fd491363
Wallet-Core/coin	waves.go	84a2280146be123de510e4524aba902fcb68853b cc2b4ad4479519a9f3945810
Wallet-Core/coin	zcash.go	787d4da9dd09a90c542df56763beda1889ba005e 288b282bb6a33b4128ed8f51
Wallet-Core/coin	zen.go	964df6d8eca0b820aebf9ecd2df9f593116282704c 5f7f06a917a10fd9fb3abc

ID	文件	SHA-256 checksum
Wallet-Core/core	core.go	92347dd2b4d9ec72f3664b412673ce24a8aa7351 8ac4439aefa58788cff42ace
Wallet-Core/core	core_test.go	433b96cbd6c62686c50fda1c4403e76c6bde8cab 274409c2974beccbacc1c9dd
Wallet-Core/core	mnemonic.go	ae93cc9bf8cdcd8109ad41d9e67de54067b225a6 572a159b67f0a13947ae5a22
Wallet-Core/core	wallet_manager.go	f6f47914e66875fac981bb2db415e636f613afd0b8 61c5e430c79e50af235ed3
Wallet-Core/core	wallet_manager_test.go	ce05a2e72dfb15275c4be1b135ea6a44aa6a0c20 2f3402874c7a41f9ec4ea535
Wallet-Core	go.mod	4a55fa04161614ccfd8a5959211a5d31ef97094b4 5557cb2db5b24b1d9df2eb0
Wallet-Core	go.sum	5dd458ce93dfcc62c3526f1d8afe323f1db4bc581b a4508dca88042c39e526a4
Wallet-Core	main.go	98c305faf94a2aea53a87467edc4249d476ac6676 1bcecb60e39ea3ee466d0c5
Wallet-Core/storage	common.go	96067da6fddd523bd5e69c7ddb40419ddca96e53 ec2560e42bd16beb21028089
Wallet-Core/storage	const.go	bcd9068f4cc664c5f8c8dda0b0cb0a9efd4341d48 933c55aeeb338e9154e38ca
Wallet-Core/storage	errors.go	80361fd7c7d5c68e0d936122bcfa7028ac789869d b37c25ba9896291a00d3ccf
Wallet-Core/storage	tokenabi.go	0740f606801b83efc2d41be7d1245b29a368acea 6cf35a507496d027ee3a0c77
Wallet-Core/storage	tx.go	52b6ed2b606837ebc30fc0a728a1b64043738314 f3ced623fe2db4f82eeafa81
Wallet-Core/util	base58.go	e3112efa7a5012e2784d06a92a7ee1e34ea5b913 f90d9606c78efff2dd9bc9a7
Wallet-Core/util/ encoder	encoder.go	63b7021ce8abd266883cee5558aa23996164bc88 1fdb3b20fb07bfa95aec91b0
Wallet-Core/util	util.go	663e3703e526867512b2dc714f2179f5fc268c173 8fee267b980c48d6757e4f4

3.4 Chrome

3.4.1 js-signlayer

ID	文件	SHA-256 checksum
packages/metax- signlayer	jest.config.js	6a16b4064c3f23792c832a1621385df64f6b63eb4 dd93251d7d600ab52272754
packages/metax- signlayer/tests	sol.test.ts	dead41f471e0ea562f7508fc465d0b9a20b2c53f8 77a4798c58f545797d4c3e3
packages/metax- signlayer/tests	bch.test.ts	0c459cac832c244aad767c1fc797ee58054c7dc4f cd64a7e3922b4fe97dc4501
packages/metax- signlayer/tests	ltc.test.ts	4d47cf702d2ed5783f71796188df441cad06eb4c7 3d20fa5e35ebdb326770c02
packages/metax- signlayer/tests	usdt.test.ts	7fe9ea35197900d8f971294317e6856faee569fa8 790667ab5e29ed31b2121d7
packages/metax- signlayer/tests	trx.test.ts	693ca713099dde2919596b4d69a1ee938239417 236a9e9e41da7a865ba04cd6b
packages/metax- signlayer/tests	eth.test.ts	d67c095396da2bedbb09043b91c2c1ef0b14627a b51c5bcf1f199842aff81fa1
packages/metax- signlayer/tests	btc.test.ts	cef05c1e7ada35d6b02ed24b3f322e5223c42f19a 42c12c0ed26a23b2ff68061
packages/metax- signlayer/tests	bsv.test.ts	d7aaed62f1ab363dc3b8ebee57d14128a054ba66 a4f2335c76e20482b45e71a1
packages/metax- signlayer	package.json	12125f05f2e80c4dbd6ad3487a6563e40cf71963c 0d777042f744e20bcee06ae
packages/metax- signlayer	tsconfig.json	d89d0f3ce0ed12faa875dd5d8caa1122d9c8d9078 e5c70b7d50a9939d0cf7aef
packages/metax- signlayer/src	wallet.ts	f1018a45bcb7c2e8c634d90e5abd8388c1f6dd72c 58c0911c20c4367719f87b9
packages/metax- signlayer/src	currency.ts	558ea371cbace51087c31d7fcefa38a9cd863d1bf 6495715c553fa5f0e434d2d
packages/metax- signlayer/src	common.ts	a7805c464a093436d07d3c67d761db4312f4d783 5476aa5c2a7f04b9753f3ad0
packages/metax- signlayer/src/basic	ed25519.ts	928ae1d457cd951a0a32d5f00b53d97c7a44f9c45 aa97ae90ccfbdee25320196
packages/metax- signlayer/src/basic	typeUtils.ts	c456954444710ea0ca286abb5e38da7be634a45 484b9ae2a0cb12e9475ad658f
packages/metax- signlayer/src/coins	SolWallet.ts	a436ca488bae682e31953681e23ae03381c2f526 644d178ecd4215d3352fbdd8
packages/metax- signlayer/src/coins	EthWallet.ts	75631dfc8f3858e90f649c842a735e161e7764c50 02612f3e267dbfdfdb0e42b
packages/metax- signlayer/src/coins	BtcWallet.ts	372f0a19db27a2a6422c52baa9a15f76a862e7c6f 10ce5f84b2d78b50b81fdc2

ID	文件	SHA-256 checksum
packages/metax- signlayer/src/coins	TrxWallet.ts	fb43a9e45699a38719166453a4d997011d87ce20 a5604751df27e9495250fc0e
packages/metax- signlayer/src/coins	index.ts	363e1808a209cb672792d37f42f0b4c6d084d3a7 8011736ddeb282c279cbd7b0
packages/metax- signlayer/src	api.ts	85e54cfe713076b2daa9731838a54610c42b8ef6 90cd086c526f7e91d490c8a2
packages/metax- signlayer/src	index.ts	43d54cfdb0d6a4e6e6fddedc218d6fa352ceea4a9 af2cc2e802110614296402a
packages/metax- signlayer/src	error.ts	e899f7666b288552acac35c77c69c2247cf1799b0 8de0dbc26df8b78b38ac712
packages/metax- tron	jest.config.js	6a16b4064c3f23792c832a1621385df64f6b63eb4 dd93251d7d600ab52272754
packages/metax- tron/tests	trx.test.ts	09456a41dca41642cdfc94db1b2ca3da81a1bdfef ab790504a6cf1b044ba8c4b
packages/metax- tron	package.json	50817ce285627b1fd0ebc9dccb2b645300469a86 a79c0a171b2d2dc1a0fa5a67
packages/metax- tron	tsconfig.json	4811f4829954691be92b6d141fbb3d4a820d5001 db3a3ff2f5e9850e2dab5359
packages/metax- tron/src	tronUtils.ts	196c7778003d9bf5bdd618a4596fb56c7578f428d 17818b4e3c12ae92dbe2145
packages/metax- tron/src	index.ts	15eb36043911ff3e4dd4f05f59f4a2056e352b6735 6cc66b128e8a4dd158400e
packages/metax- tron/src/protobuf	Contract.proto	5987adb4793b3b99a5efb17d0a268300dc40cd43 6a0db837095c1aa91d42934b
packages/metax- tron/src/protobuf	tron.d.ts	5c390354e0fad3cabb3abdf11a947625161b7a29f 534322388c35bb582333e07
packages/metax- tron/src/protobuf	Discover.proto	a1e1816ff6c5f3c8718e5e48044eff6ee9f974b1a2 58f00794d0ba100a0ede61
packages/metax- tron/src/protobuf	tron.proto	1b4c978460d0f2f5b5603734c90040cbd0dc27f67 a3de7fc2a58151b41b1ade2
packages/metax- tron/src/protobuf	tron.js	ee37366f3273997f9ae8a65270450d07df45b27e4 2c7a5c8a656d85795670704
packages/metax- eos	jest.config.js	6a16b4064c3f23792c832a1621385df64f6b63eb4 dd93251d7d600ab52272754
packages/metax- eos/tests	eos.test.ts	0f0cf51b0cb3837ce33cbc41889c6edd05023a4cc 34eb1837a47a281bfdf5e32
packages/metax- eos	package.json	bc2972667d77ed541fca6155392dcbae68f7b7c42 327a7fcf77bdc96e9a0655e
packages/metax- eos	tsconfig.json	5e864c77545ffcd5993bb22254128e7dee90de4c4 7d4c9c084730336bed76971
packages/metax- eos/src	numeric.ts	ff795f96c2a9da21db4252300f12bcc16ce8f0b17c 86db03c9caa48efb6380e2
packages/metax- eos/src	txBuilder.ts	bae13a25a87b973fbb821469484d22a547391271 c2b1d142f33e66c93d466c04

ID	文件	SHA-256 checksum
packages/metax- eos/src	api.ts	9cadbd9ebccaeba082046eea371b601b5ac9a6d7 6142c86481f254c1ac454125
packages/metax- eos/src	action.ts	cf058b22383d24fab6afdf359641eeffd39a86ea2d ad9501e31c97f7119aaf01
packages/metax- eos/src	types.ts	01964e2628fddb87534489e5904ed9e1d43d3d5c 12c3be322edd071b47a4cca3
packages/metax- eos/src	index.ts	cb587e136c0289c873c07aff7823211efeaec2edd 843182898eba4165c6278d3
packages/metax- eos/src	serialize.ts	d78e5ab155ab9cf29b3c3c1d6bef177b476cf5c6fa e619defe79f6018bc71c32
packages/metax- flow	jest.config.js	6a16b4064c3f23792c832a1621385df64f6b63eb4 dd93251d7d600ab52272754
packages/metax- flow/tests	flow.test.ts	bbad3b9eb2a6a6df723d0b54dac916643d1f3ba3 e52531a929070f359c8b0ad3
packages/metax- flow	package.json	78e9c4e47fe1ee1adba31b37c28f05a80d7c58b34 1c5a186d9d003e509aed306
packages/metax- flow	tsconfig.json	5e864c77545ffcd5993bb22254128e7dee90de4c4 7d4c9c084730336bed76971
packages/metax- flow/src	account.ts	091c105a5e42c3eb558ad87ddad20e433b5b9bdf d9931ccd3efd9ff8e55e17e2
packages/metax- flow/src	tx.ts	3b0f75f728def720ce0a5533ff88143e60b7f6a38c 2c72ba94443825302e52e8
packages/metax- flow/src	signature.ts	39d8c2bf83e16667146d2e39c6c5a64366ab0e5c 26ea35bfc33d595330d25eb1
packages/metax- flow/src	http.ts	7fac4a9fc1d31ea4b7135fb8f6b7445d44155c9cf3 dbf8e75b11cfd8dfa48a9a
packages/metax- flow/src	model.ts	244c13016224237dbd362355c23be3a04d7dd33f ee69e29ece853b1c624cf437
packages/metax- flow/src	enode.ts	120d7a1d8e57f373c7f78fcf3fc27cd4a0aadd2bc2 2d7686239aa6053bc9c82a
packages/metax- flow/src	index.ts	c71a50af6a497b81b7a677bc73fb5038be911c26f 10c025a7a82de5cbacb9b7a
packages/metax- near/test	near.test.ts	ae648ed7df7c799542c029be068c65871af7814a7 327fb554b2e1fa1e181f0f5
packages/metax- near	jest.config.js	6a16b4064c3f23792c832a1621385df64f6b63eb4 dd93251d7d600ab52272754
packages/metax- near	package.json	f7577e7189f386f24c193c599373db5cf6711764ae f76e17ff70866fb363e027
packages/metax- near	tsconfig.json	94aff038b3e1ac65ddc7c63e323463b99aad96692 4ffdd143eca8f2447728367
packages/metax- near/src	keypair.ts	5e6454116ebca9e621f658d1ade1b39a234b8671 d27d13544f4bfef16ce46f85
packages/metax- near/src	transaction.ts	f4bd6d36b1cad5b575318166529dc82957f50a28 98344bee7f0104bfcbc21f98

文件	SHA-256 checksum
index.ts	88f968b96f509aa5775b3bf6e44da3a5c7d31cca9 7b0d00f7c87cdaff77eacbb
enums.ts	d4edf55cdeb97fadeca3c6bb14783b3dd4fc1f3baf 439fd0365548b402b459ba
serialize.ts	ea72941f6215d7a9d1fa929779175a2657e5f2038 08dc9bd505d2fc829ad0e66
jest.config.js	6a16b4064c3f23792c832a1621385df64f6b63eb4 dd93251d7d600ab52272754
sol.test.ts	5be09507064748af8ee02fd13118f3fe99d91b891 e24ae711a1bd7dfefdf1385
package.json	a1d9b2e7fe545324bd2319e607080e8b280f1a75 26816a45fccb15da5144b31e
tsconfig.json	d89d0f3ce0ed12faa875dd5d8caa1122d9c8d9078 e5c70b7d50a9939d0cf7aef
api.ts	fe2beedae5e45a044d8044fff3ff9e64de323edb4b 38f0df888d3d23bd02e0b7
transfer.ts	9d5384a017eec2112a8430fc51dbf41ef2cad7664 c3b8543b59bfd36e0e8b82c
transferChecked.ts	229f8eebb5fd1087e99461addcb1fa355a385fec9 dffeeec42b915576c6ec6de
associatedTokenAccount.ts	500dfc53a97b6f70ddf12e495497babfddcd3b146 a57a7faf7e05c8c0db570ce
types.ts	e3f58883a242a8b533c010953d379efad95f955d7 223092eea980db46fa4c3b1
index.ts	e083431012889bd6d0246eecf860165d62759d28 80d0ae653375c7ca26830ef3
internal.ts	bf358147f2df7fc7539864cb6350c2ddf8816687d4 a7182278463f5974220018
errors.ts	aa6981ce20561d80ce69d3943bf80842af73ae40 660bbefcdd2c963beb5217f7
constants.ts	bc630c8d0863a016ff5ddc3db0ef4d5416753f5256 e49d0d7015d95674ed86d9
index.ts	447c657f19211d69532c31fa5eae699a3a4f63a6d b98c0c0bd1ae70298262ef6
base.ts	b0fe4be45f6685487108f946aeaba92b1b197ffa21 763fc00922eebdc037025f
web3.ts	8dce1941fc154b0aecf16cb0e5cd0706ccc7c10bd 916fd29db969aeb58cf9246
native.ts	486e49ba6e68880661763406a62825b013581bb d6670f8aad6db67243c43bf6a
	index.ts enums.ts enums.ts serialize.ts jest.config.js sol.test.ts package.json tsconfig.json api.ts transfer.ts transferChecked.ts associatedTokenAccount.ts types.ts index.ts internal.ts errors.ts constants.ts index.ts base.ts web3.ts

ID	文件	SHA-256 checksum
packages/metax- solana/src/sdk/buffer- layout/utils	decimal.ts	64b6938a4dd41de14baab8b320b213c4f3cbd351 ee98ad13b613af5cca6338ee
packages/metax- solana/src/sdk/buffer- layout/utils	bigint.ts	7b6a88fb27446d2528832262384a4f22bbb67310 d591f7d2a2192e2b628df3c4
packages/metax- solana/src/sdk/buffer- layout/utils	index.ts	cb8e78bad4cbf23406289a5ec14312e3abba608f2 1a7cc98a8c0ce6908ab1c4c
layout	layout.ts	749e09480c072f61a300e097f6e2ccda58b20120f 64e6979ce145140be90cb7e
packages/metax- solana/src/sdk/buffer- layout	index.ts	f53be365f764af493b13fd1daff50ea508b5715ac0 add3a77fba762f8c45968c
packages/metax- solana/src/sdk/web3	instruction.ts	c397022a5d420cedf1c8e493cfa7007f0e1b0ea0c 2e43cd60ba9ffb9795d58db
util	to-buffer.ts	a3d6e55f43facd349cf4b5597a33ea06d0c81f5ebe 1bbc6d0810808494f6c75d
util	shortvec-encoding.ts	b8c2649037607b056f9dac8e4888898d53199415 45f994924ceb934d562870a7
util	borsh-schema.ts	c9fd047494d1643e1e04d659b23a3d536050f348 e648f37168796cbe3c3e548c
packages/metax- solana/src/sdk/web3/ util	sleep.ts	bfef80704d32763bd89639edd51fcc71f2c27d5002 feb5420d47173518f03bcc
packages/metax- solana/src/sdk/web3/ util	tx-expiry-custom-errors.ts	d2a920d5464d490f6aeea4e811046e9edb865850 12cb2dc5f64363e5bd5c225b
packages/metax- solana/src/sdk/web3/ util	cluster.ts	b2529331489a93d5aaabfb4abe0ccba37f090209 e17ddc0d656a85007716bd0f
packages/metax- solana/src/sdk/web3/ util	url.ts	52bf396152d98e55802025c40dddff1b005b390de d59065e98dea27ffe223e41
packages/metax- solana/src/sdk/web3/ util	assert.ts	60e5ab3b96de03c3160b963a79fdfbe5bcc08b52e 795e7f805699c74eac5f364
util	bigint.ts	dd466f10a1e88acbf84ec2d6d9318ac895957350e 3fdf88970505a4d021b9ee9
packages/metax- solana/src/sdk/web3/ util	promise-timeout.ts	9a06d7fb9a02ee337c4f4fef7c9431e768f7d90338 4dc0e3cd30b9b7b71bd331
packages/metax- solana/src/sdk/web3	publickey.ts	0a72de29b65c50331333ace1545a9c07a99e24a8 bdf6b64ce78ed7f970603612
packages/metax- solana/src/sdk/web3	blockhash.ts	efffb098704ef16b532391713e19e85609e6cfe655 0f10e98694391f89cc76b5
packages/metax- solana/src/sdk/web3	keypair.ts	af9389f2a9bc0f1ad5c28d76125884137d6223432 78973f5a0b15fa1349ad2f7
packages/metax- solana/src/sdk/web3	nonce-account.ts	3eeeee497b664814f33635e4f46df3a6306e126da 7336999e54a9107cbd474f1

ID	文件	SHA-256 checksum
packages/metax- solana/src/sdk/web3	fee-calculator.ts	5ecad0bc24debe79a37e6efe9ddc11117093791d 63bba37961c59aec9526bf8f
packages/metax- solana/src/sdk/web3	system-program.ts	5c071b0d32e45662eaacdfb8245b824d9d278e4f 9e806de6f586e55e13f7d47a
packages/metax- solana/src/sdk/web3	message.ts	4f62b88c3efb57a0c6beb46e1a610e398c0330128 2a53c47083a8d321ed11f37
packages/metax- solana/src/sdk/web3	transaction-constants.ts	3b836583bf21e1877cd8c0733c68167c8c3b4271 4941a216db78239599c5c677
packages/metax- solana/src/sdk/web3	layout.ts	9c1a7d71689beeb4966c40d413a22c8bab8ea681 916aa0d3496c592afaf08100
packages/metax- solana/src/sdk/web3	stake-program.ts	c31fbf192f078c07142fdf509ac1feba2f60274f6702 0a1f9b85a4a729020f59
packages/metax- solana/src/sdk/web3	transaction.ts	a45d1043be10949c5e42d867136e8d373d9784b 1da816c600614aedbfea034c8
packages/metax- solana/src/sdk/web3	index.ts	f60e2c65734915bec19e14016b69ac137f3d370ea 38fa9a1cd2e1d63ce543fce
packages/metax- solana/src/sdk/web3	sysvar.ts	2b0ef75268de86a90b8c2b8bad7c7cf5a3167ac87 6b2daef25daa289bce227d0
packages/metax- solana/src/sdk	index.ts	1a9990dabf9e78f0733b9229ae3f0bba3260c3a11 7db0498a0df8f09ce784a5a
packages/metax- solana/src	index.ts	9b12e7fe7d4aec8b8a29e9804a35cf998baf37e2f aa307fa96c1bd2cc80da15d
packages/metax- cosmos	jest.config.js	6a16b4064c3f23792c832a1621385df64f6b63eb4 dd93251d7d600ab52272754
packages/metax- cosmos/tests	luna.test.ts	6714d9c58539f373c5c49425fb2778cdb2a16d5b5 8fd7720fb3a6fe4e2a41f9f
packages/metax- cosmos	package.json	6b042d928359b707fbc385fd6697fa861ae133c43 8a62e936b535bc7f9890777
packages/metax- cosmos	tsconfig.json	4811f4829954691be92b6d141fbb3d4a820d5001 db3a3ff2f5e9850e2dab5359
packages/metax- cosmos/src	tx.ts	c4dbe6c3dc559da9b6b472d2fcbd6ab228f6523ef ef4c32fc01661014ff88366
packages/metax- cosmos/src/types/ gogoproto	gogo.ts	4317d7a35fb3ae468a4965111e4312e1db2b3c63 583d055697fcebbcd446b06b
packages/metax- cosmos/src/types/ google/api	annotations.ts	b158d65d082fa3993f0102bd696389d25f5b1b088 5be46622113cd9cd8337bab
packages/metax- cosmos/src/types/ google/api	http.ts	08e8b5d71259695cf09d9d6c78f874c1dde0a3b41 afbe8f6c580281c2ffe5029
packages/metax- cosmos/src/types/ google/protobuf	any.ts	9badfbda6c0f6196d8b0954c6f2ac62693b531d40 0021d5980279bd8d8077ed5

ID	文件	SHA-256 checksum
packages/metax- cosmos/src/types/ google/protobuf	timestamp.ts	f07560bb1b992268fd1a72e4f09692efce2083fe4b d0b7951ed765aa62ce87af
packages/metax- cosmos/src/types/ google/protobuf	duration.ts	07927c6a00c5499c6e5629a752d06a034ee69682 30c3638009cbacc4a9888537
packages/metax- cosmos/src/types/ google/protobuf	descriptor.ts	f78d5479041db15bc8d853bdd43151b428324886 faf464596de59737354b3b21
packages/metax- cosmos/src/types/ cosmos/crypto/	keys.ts	e1482863ca3fd6498a2c60850859637f6882b103 4b978837ac03fcbda13bb5a8
packages/metax- cosmos/src/types/ cosmos/crypto/	multisig.ts	f884a337eb683a112d9333ad3a57188abd36eab7 374228d2311c53e427eae985
packages/metax- cosmos/src/types/ cosmos/crypto/	keys.ts	dd6f01c2ed48fcbe50407ddc979600e52ee9f040c 5cd6b1854b60c0f0e658b1c
packages/metax- cosmos/src/types/ cosmos/crypto/	keys.ts	d2608f47140c7e93bb90c4bbcdf5f9499dc3abc8d e1d55016855d8a3d2fa8733
packages/metax- cosmos/src/types/ cosmos/bank/v1beta1	tx.ts	99f69ee951d9eb7dc4fb31a2a11fd36aa9f74cdb99 4bf08eba3b228ea365297e
packages/metax- cosmos/src/types/ cosmos/tx/signing/	signing.ts	8fa56c102c9b58fdd6e30938e040bff98275847d2 16681b58a778ddcbb63aa68
packages/metax- cosmos/src/types/ cosmos/tx/v1beta1	tx.ts	bb771d64f2b8bb905eb63e6f90d1e47ab4228ebe 4ba01b2fc9e1b1688646826d
packages/metax- cosmos/src/types/ cosmos/staking/	tx.ts	db6b10d1403e7cf6271b5f962b2a2ea35475bd5f2 4d1c06dc84d5d1f1e0b8d12
packages/metax- cosmos/src/types/ cosmos/base/v1beta1	coin.ts	6a42a1a7f0bf7ce16bb45ca1142f970587108908d ca3ec8df2722043f4535c2b
packages/metax- cosmos/src/types/ibc/ applications/transfer/	tx.ts	1c81ac8d9fe7ca73d99ad07f336f67cebc5ad8104 456d7a9b1c3cec5c0a1027d
packages/metax- cosmos/src/types/ibc/ applications/transfer/	transfer.ts	f47953a8e8a8aaead9433364d4a613476f76153c c47b4b75b70a7e8961f257ba
packages/metax- cosmos/src/types/ibc/ applications/transfer/	packet.ts	0c710e1655c653251cabff2150ddaa6b06bc8f000 50d3d1491bf0028b1b1b35c
packages/metax- cosmos/src/utils	array.ts	eba9b96efc7abbdff5a4c4713dd316a21f8d1744dc d959e7c0709779bb8a68a3
packages/metax- cosmos/src/osmosis	aminotypes.ts	08a532c9a69b6dbbddadf40f0187c254ee0a32c0a 652381f532fbdab294d4c07
packages/metax- cosmos/src/osmosis/ gamm/v1beta1	tx.ts	231b7939dc7b54a863b98a5b934a1aa212ac4db 596f268fcfb60083b23b8baeb
packages/metax- cosmos/src/osmosis	registry.ts	d083468cfef1908fd6fab3ed15cbbaf0a0736656f1 5a95a5fa683e4db3988bea
packages/metax- cosmos/src/osmosis	index.ts	af4f9ae563861c4bcbae68bfb218314f2c30c71c84 0bbbd7cdc988c2c229665e

ID	文件	SHA-256 checksum
packages/metax- cosmos/src/amino	aminotypes.ts	13beaed418fe44df9d3a166f04e1654ca58a6a29b cf85149447bad0687ffc419
packages/metax- cosmos/src/amino	coins.ts	5055c7987873873f450eb6124f43962908f542e97 37a41aa419c84a11cb0bdd4
packages/metax- cosmos/src/amino	pubkeys.ts	6f262c588aa6c5ee11565bb2144dc0213eb19270 96d47966acbb6739c3e22039
packages/metax- cosmos/src/amino	encoding.ts	587ad6ca64759eab6f2fcc096ddc310631bfb6407f da4b1f35ecf841470badb9
packages/metax- cosmos/src/amino	aminoRegistry.ts	12a1c4a80ae45791c018da300a7591f51a40c51f8 a3c9636d72815f59a1c523e
packages/metax- cosmos/src	registry.ts	3325f6781457dc7bb58b6c6913d2c5a23a9374cfd 0ad2ca59b47e263d945855f
packages/metax- cosmos/src	index.ts	a15e7352419a2b421e1de5f047f1205af782f299ff 308a6f17280d606fbf09ba
packages/metax- cosmos/src	encoding.ts	1f1a3c6c39a4ba7f1ac192df1f8f051a95730a57a2 8d49fb918abb303a3cdafc
packages/metax- ethereum	jest.config.js	6a16b4064c3f23792c832a1621385df64f6b63eb4 dd93251d7d600ab52272754
packages/metax- ethereum/tests	eth.test.ts	603653c7ac6eedcdb067eb5e64dce6c6405a7147 d610e5748a224f2930076e92
packages/metax- ethereum	package.json	71e63f93fd8ea8bbe3916f554d75f4b4b708590b6 a0537310c166174fb9be52b
packages/metax- ethereum	tsconfig.json	5e864c77545ffcd5993bb22254128e7dee90de4c4 7d4c9c084730336bed76971
packages/metax- ethereum/src	api.ts	9176a722f96d9d7689094f39c715dc984c9bd7830 d0a2d824fe9db9103dae1fc
packages/metax- ethereum/src	message.ts	e218f65ddc3164d1af5eb6d89ec4292fa694e8437 8463f3061422906ca94b97e
packages/metax- ethereum/src/sdk/ ethereumjs-tx	baseTransaction.ts	c5a4351973677e0e106f873f22a701a5659278ba 3a618b3759dbc572a2cb2bb9
packages/metax- ethereum/src/sdk/ ethereumjs-tx	legacyTransaction.ts	ba169238caad5aabbbcf1a8c3e8d1187d71ddfa8a f02f97f00d4d23f93e3be5c
packages/metax- ethereum/src/sdk/ ethereumjs-tx	types.ts	0b8935f19781558459cb78f4387a82e5805722d5 1888a277bd657b4f176fa51e
packages/metax- ethereum/src/sdk/ ethereumjs-tx	eip2930Transaction.ts	77a25c583fb7e7da287bf484f33146f4cb37b3da9 95c57d25678b4fe81674af4
packages/metax- ethereum/src/sdk/ ethereumjs-tx	eip1559Transaction.ts	34b100c9aa61bf5a7e157902d50edfaf0e6d488a7 eb1d9aff8b0c0d7f5b1ed55
packages/metax- ethereum/src/sdk/ ethereumjs-tx	transactionFactory.ts	ab233d3b947ea5480fd749347484ead8fdc94247 b79352cce58c354110baac8f

ID	文件	SHA-256 checksum
packages/metax- ethereum/src/sdk/ ethereumjs-tx	util.ts	ce4001efe2ac98c5b8cc6a55e6b2014369eb6dd5f 10eac728ceec0c4018e76f2
packages/metax- ethereum/src/sdk/ ethereumjs-tx	index.ts	3eb43bcb37b9d93ff5c6b8a5927605dac6c6b517e 67f45eff19556fa35d4921c
packages/metax- ethereum/src/sdk/ ethereumjs-util	account.ts	048e3fd0ac4b9d55e23c5e2eefffb11b315642c904 63a33bcf642eae7e316bc8
packages/metax- ethereum/src/sdk/ ethereumjs-util	helpers.ts	c190716558127868b09cef6231c4f4e6366d36763 cfca0c7e63dd829b02406c6
packages/metax- ethereum/src/sdk/ ethereumjs-util	signature.ts	6a9c6d6e058ab7977ebdd754fc8a50584c2bea82 c65c9537e59f9db49bfc8181
packages/metax- ethereum/src/sdk/ ethereumjs-util	bytes.ts	354e4eedbf8f0b003dd593e236b372a873998a55 297de3a6a61f7d3e657908b9
packages/metax- ethereum/src/sdk/ ethereumjs-util	hash.ts	50ff1b736776cea4acb19b7bd7f1c0abe1175b994 61ef29abcd558f4edc5e00f
packages/metax- ethereum/src/sdk/ ethereumjs-util	types.ts	dcb0cf9114b439b2351b230290af7a31b92a22425 c55dbe52f29c953877e5584
packages/metax- ethereum/src/sdk/ ethereumjs-util	constants.ts	decea0f5c3735dde2c1ac242c0167f3f45d9ada53 3a5cd6ff74d8778a0896666
packages/metax- ethereum/src/sdk/ ethereumjs-util	util.ts	396d185582726c582585a4b1a54fe1d8e38ccc46 5b83670e7288892676ecbaaf
packages/metax- ethereum/src/sdk/ ethereumjs-util	index.ts	f74cb4f6ca749070402192c970b15febf0b10e4090 c7a5a0248e8148c17f0f0c
packages/metax- ethereum/src/sdk/ ethereumjs-util	rlp.ts	722c6a95f6293d455c04582bdddd7f4d26527017 9dfdce61bd498dae4515a83f
packages/metax- ethereum/src/sdk/ ethereumjs-util	externals.d.ts	492e93d4239e5ee0a7a39d927059558f128dea54 ee4d4c0b8e6e2f4f063537f9
packages/metax- ethereum/src/sdk/ ethereumjs-util	address.ts	8a3e119a979c24c442bc94dc076daf52b70e0d60 4b4b29fba96972acd2323920
packages/metax- ethereum/src/sdk	index.ts	9d8b820bddd0d40c9ab00c6c301fd1204aeae7a2 90c666bee5eef44c4064d486
packages/metax- ethereum/src/sdk/eth- sig-util	utils.ts	7d7ca8831bfd2e4248fec30d699244d0ca0307653 32616438e72d7739abc6381
packages/metax- ethereum/src/sdk/eth- sig-util	index.ts	11e929d05ba03a70feb28a68328503bbf642a241 da42c99dc74af2f3adb478f4
packages/metax- ethereum/src/sdk/eth- sig-util	sign-typed-data.ts	b445e6d01ef1a118283c0852c0224ec51023c430 9e677c6b7a3cfafdac8793dd
packages/metax- ethereum/src	index.ts	6093ed0db1e0da30824a4b573ab20c878a6aa85 7d85272dda47e53530b687e38
packages/metax- bitcoin	jest.config.js	6a16b4064c3f23792c832a1621385df64f6b63eb4 dd93251d7d600ab52272754

文件	SHA-256 checksum
btc.test.ts	4066f1e597d5f4b1d22cb03e8729ba020066f7c19 c0361e2952cd58706bba369
package.json	fbce6a4f623164e0367e1380b6c9a16b8aca61aff6 6ef889c9d43900a1603744
tsconfig.json	4811f4829954691be92b6d141fbb3d4a820d5001 db3a3ff2f5e9850e2dab5359
wif.ts	46002aa65160674e0d697a9d235a70dd71ad8f2f 5d8c0aa23c453be6388c9b65
lazy.ts	bdc7e905977992be0599f0ebed3af59ef75b8cb55 cd635e3c5babbad4f857d9e
p2pk.ts	d2b1dbd31eaa3591b439ad52d9940bb14e4ece4 110880162a7f033d817c456fd
p2wpkh.ts	426851c59daaad711f2690639669bab9497a70fe 39a6866bb34eac1695b3bbb8
nynkn is	d1db9ae4737369bde92624f98351ec9feb577c67 2a014679dae770c8fa25846f
p2ms.ts	663e384e180b61c525021e020ddf340385fe36f95 a16f0526a3245c8284ef13d
nysh is	468e59160830ebfd3bb2fae8ffd15b6c3a7167126 6f96aef9744a2e777df4259
INDEX IS	62842483c3e1e336418fd93f0af22a225b2fa1c60 ace5c2a9d9fe95aa1671308
embed.ts	3e7318c6615b8a28fb6e501f43703a03d67e82b7 b66d7283c5e7fa053bcb4550
p2wsh.ts	f6f7d6cc2f6e90e5154a2cb8933123dd611c1f21ad dcdcef865b098d75f889b0
script.ts	7427e483f4b677ebd78fe0e32439a671c97d9530f f37527c09ae36822203f6ae
bip66.ts	f16e696f585e666780b231c4c4867058003b1396 85dfca23d0db49ab9a96b662
varuint.js	72df5247058acec046656e3c99f0e990a1e6730b9 a28bc7422399b52f184f2df
Inligh data te	8922ab7ce6652216662aea466bdb7c71c488b6a1 dcd036b2461f45db5fec78a0
bufferutils.ts	dcb8aa011aadea926ff3980a9f23ebb06116454bc 5f13572b5c27d20c0380b52
crypto.ts	568d2787a196f1949351fa250ba5c13769525e7d 338c6a551d16ab72ed8e84ab
ops.ts	e7a1979bd0e8604402c7e3f7572bfe83acb0e800f b3cb274ef6b02964a725ee5
	btc.test.ts package.json tsconfig.json wif.ts lazy.ts p2pk.ts p2wpkh.ts p2ms.ts p2sh.ts index.ts embed.ts p2wsh.ts script.ts bip66.ts varuint.js push_data.ts bufferutils.ts crypto.ts

ID	文件	SHA-256 checksum
packages/metax- bitcoin/src/bitcoinjs-lib	networks.ts	4f353a8203784f34ef2b93ae1588fac5e07dcbd46 9df17a6dbffe8947b60a03a
packages/metax- bitcoin/src/bitcoinjs-lib	types.ts	51fe18071b1f8c0f030b55dd8b36b36946e566cf5 b104cb3170f2188f46a9cec
packages/metax- bitcoin/src/bitcoinjs-lib	script_signature.ts	13bf22bb32d72750c5353a9b211a8c8ea098facf4 8e8ba3956d9073e68538e9d
packages/metax- bitcoin/src/bitcoinjs-lib	varuint.d.ts	3b2119df3d7142228be799e6ea896c797ff796cf51 ea8272a5fd503cbc4b7dfd
packages/metax- bitcoin/src/bitcoinjs-lib	transaction.ts	1ffb1b95837ff30a8d96d800ee0868a53cd84128fd 6a353dffd829a5bcee9669
packages/metax- bitcoin/src/bitcoinjs-lib	index.ts	c766a97b9f0d473530acbfa0d1e804fed561ae860 e082cda8936bbcaa07a6317
packages/metax- bitcoin/src/bitcoinjs-lib	script_number.ts	cc15c1fe9cf88200c8d06f1624b35ff209ff374d55a aa0f7926daee3f854799f
packages/metax- bitcoin/src/bitcoinjs-lib	address.ts	8871b9b65346cdf196d0f6710ac5573a7388d57fc 6c885e82c0fa0706ef6c7e3
packages/metax- bitcoin/src	txBuild.ts	91cd5db8c7b94dadf3542345f98eed68d7308cd13 277d0b1c5f796b975c8c385
packages/metax- bitcoin/src	type.ts	7ca533c8030e971603ab68ae95bbabc2c75b9d3b 3a8d4842222d6bf226b5b5d1
packages/metax- bitcoin/src	index.ts	29a27c3167a7b0b425ae50d0a4120a6d3ab550c 3b570ec66a4504a53de208134
packages/metax- crypto	jest.config.js	6a16b4064c3f23792c832a1621385df64f6b63eb4 dd93251d7d600ab52272754
packages/metax- crypto/tests	batch.test.ts	b0c7fe99c5cf536f2fe965333e72eeeeb46004a6b6 cc35199fa47f75bf037e13

3.4.2 keyrings

ID	文件	SHA-256 checksum
	KeyringController.js	401aebf92d493d391fe5c86f1f7d524be3f1ca9d60 618ecddd0f237b3c63c511
	keyringUtils.js	c27a6aac576b4cdec0bb29cba6da4260d2147930 307a60435f9e4c497e43e86c
	MultipleTrezorKeyring.js	c0f220457532dac9414281492800253846d35ed6 ed30cea3bb1b48ef3e4552d5
utils	index.js	f0fd99e30b3034a9988d897ca3453002bd16b9d9 e8f3fdc259b22859b30e1ce0
utils	transfer.test.js	e3e57f74bbb8126a61e3bf48f594d35ea33675731 b7119460018acfc02eceba7
utils	transfer.js	409941f93384010fd89c285863be10bcccae945b7 22e7443d20363da9925105f
	MultipleSimpleKeyring.js	5bcb68852e21c090905a9a69beeca165e4b5c1ac c72855baaec073f52c5974ac
	MultipleHDKeyring.js	0933e34c151095afabb5ad19ff1a99d47b31d66d7 b750cd9f6bb27e684e311f8
	MultipleTrezorKeyring.test.js	68d94a4fdd1073b435e2785065d9381f176f0b542 4332f970e639bf3d3755e4a
	MultipleKeyring.md	27b726506c46b5b60d6534bb9edbba164968bc1 e0ea5ffa52ae350547cd88908
	KeyringController.test.js	22b64a1a5ca85f5aebc157a08528f95ce98a28202 855a86cf7770e912a5780a2
	MultipleHDKeyring.test.js	4bbec2bfad8a5507ba77e7f14e035855ccd0a0c2c 3b2ccc88a6df9a427e40d84
	MultipleLedgerBridgeKeyring.te st.js	da0e0dfa1e741b11d673dc7cc47bdae4a47513e6f 254bbef8fb0d92278fc4062
	MultipleSimpleKeyring.test.js	0df5a610ac67d59b5740a2fbd842f81c395f1af047 e5fb3df81a8eb22f4dc3b3
chains	index.js	9317db3d5f64c6c4488949ae5931bd23aeae866e 5767b43702b109e3d8074e8b
chains/ethereum	SimpleKeyring.test.js	84f5f5968a93d379c6eb418ce0f6dec496110eb9e 038d8cc1465dcadfec3b173
chains/ethereum	HDKeyring.js	b32739718e2788595f2bda9986e3facdcf0d48552 21d7666c487304d8ba90c39
chains/ethereum	SimpleKeyring.js	66b84f09bbafb1a4e94aa0d84282099951db7045 4cd248403f4d49e88b5bdacb
chains/ethereum	HDKeyring.test.js	77aedcee7185840e211c154cd9b8f540870674a7 a0077235c2c985cd45db1d40
	keyringUtils.test.js	1d49ae40330043dd672c6c2e95864be2cac14cdd aaaee8c302e3a2109671aae4
	MultipleLedgerBridgeKeyring.js	0b119601997af6885425c956a15c344eecb9ef16c 2acb808c8159b5660a977e0

4. 代碼結構

4.1 Android

IWalletManager.kt
PasswordManager.kt
WalletApiService.kt
├── WalletBridge.kt
├── WalletBuilder.kt
WalletCreateUtils.kt
WalletGenerator.kt
WalletImpl.kt
WalletLoader.kt
WalletManager.kt
database
WalletDatabase.kt
address_book
WalletAddressBookDatabase.kt
WalletAddressBookManager.kt
WalletSendCoinRecordManager.kt
dao
AddressBookDao.kt
L SendCoinRecordDao.kt
entity
AddressBookEntity.kt
L SendCoinRecordEntity.kt
repository
IWalletAddressBookRepository.kt
IWalletSendCoinRecordRepository.l
WalletAddressBookRepository.kt
dao
AddressDao.kt
DAppDao.kt
│
│
│
│

entity
AddressEntity.kt
ChainAddressEntity.kt
ChainAddressSegWitEntity.kt
│
│
DAppSearchHistoryEntity.kt
│
│ ├── EOSInfoEntity.kt
│
├── MessageItemEntity.kt
RootWalletEntity.kt
SepInfoEntity.kt
SyncItemEntity.kt
TxLogEntity.kt
├── WalletClosedCoinEntity.kt
├── WalletCoinEntity.kt
├── WalletDefiEntity.kt
├── WalletEntity.kt
├── WalletNftEntity.kt
L—— WalletOpenedCoinEntity.kt
— migration
FlutterWalletDBHelper.kt
│
TableAddressMigration.kt
TableChainAddressMigration.kt
TableCoinMigration.kt
TableEOSInfoMigration.kt
TableKeyValuesMigration.kt
TableMessageMigration.kt
TableSepInfoMigration.kt
TableSyncMigration.kt
TableWalletMigration.kt
L WalletDBMigrationWorker.kt
repository
AddressRepository.kt
DAppRepository.kt
│
├── KVRepository.kt
├── MessageRepository.kt
SyncRepository.kt
L WalletRepository.kt

utils
L WalletSQLiteOpenHelper.kt
L—view
ClosedCoinView.kt
│
JoindCoinView.kt
JoindDefiView.kt
JoindSepInfosView.kt
JoinedChainSegWitAddressView.kt
JoinedNftView.kt
OpenedCoinView.kt
RootWalletView.kt
└── WalletView.kt
—— interaction
— DappBaseInteraction.kt
DappBaseSignInteraction.kt
DappInteractionFactory.kt
bean
DappInteractionFeeInfo.kt
DappInteractionResult.kt
DappSignInfo.kt
DappTxResultBean.kt
Limpl
EvmDappInteraction.kt
EvmDappSignInteraction.kt
SolDappInteraction.kt
SolDappSignInteraction.kt
TrxDappInteraction.kt
TrxDappSignInteraction.kt
L transaction
OKWTransaction.kt
TransactionFeeInfo.kt
calculator
Character Charac
impl impl
OkAccountTransaction.kt
OkCosmosTransaction.kt
OkEosTransaction.kt
OkNearTransaction.kt
OkPolkadotTransaction.kt
OkSolanaTransaction.kt
OkTronTransaction.kt
OkUTXOTransaction.kt
L—— OkWavesTransaction kt

4.2 IOS

AFNetworking-4.0.1
AFCompatibilityMacros.h
AFHTTPSessionManager.h
AFHTTPSessionManager.m
AFNetworkReachabilityManager.
AFNetworkReachabilityManager.
AFNetworking.h
AFSecurityPolicy.h
AFSecurityPolicy.m
AFURLRequestSerialization.h
AFURLRequestSerialization.m
AFURLResponseSerialization.h
AFURLResponseSerialization.m
AFURLSessionManager.h
L—— AFURLSessionManager.m
OKBAsyncLoader.h
OKBAsyncLoader.m
OKFAPIBaseManager.h
OKFAPIBaseManager.m
OKFAPIURLRequest.h
OKFAPIURLRequest.m
OKFAPIURLResponse.h
OKFAPIURLResponse.m
OKFCachePolicy.h
OKFRequest+Private.h
OKFRequest.h
OKFRequest.m
OKWApiService.h
OKWApiService.m
OKWBridge.h
OKWBridge.m
OKWDataBaseManager.h
OKWDataBaseManager.m
OKWMnemonic.h
OKWMnemonic.m
OKWSchema.h
OKWSchema.m
OKWWalletManager.h
L OKWWalletManager.m

4.3 Wallet-Core



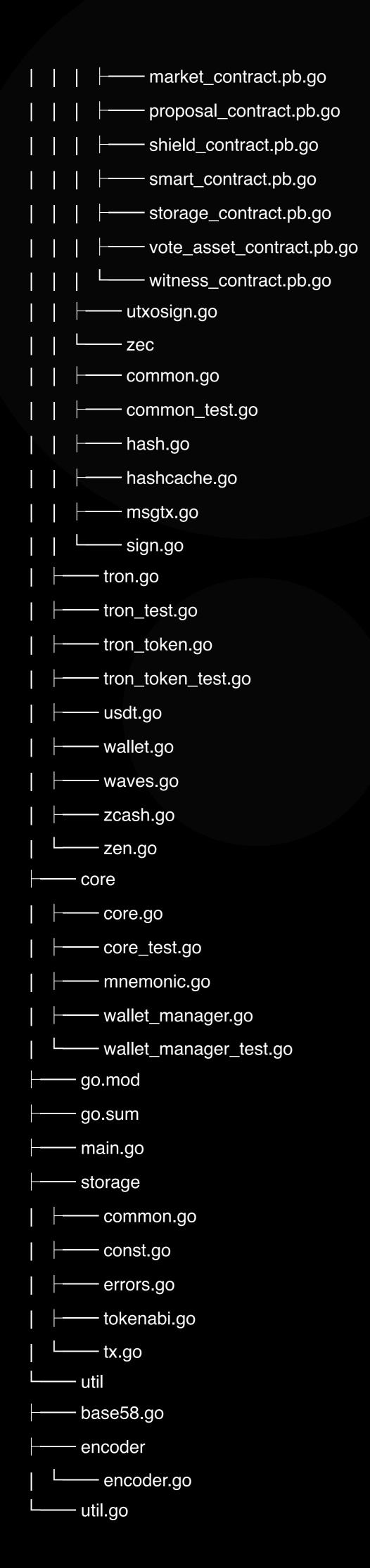
- elrond.go
- eos.go
- eos_test.go
- etc.go
- etc_test.go
- eth.go
- eth_test.go
- eth_token.go
- eth_token_test.go
- | ----evm.go
- evm_token.go
- evmos.go
- | In the state of the state of
- harmony.go
- icx.go
- icx_test.go
- | Iitecoin.go
- nas.go
- nas_test.go
- near.go
- neo.go
- | ---- okp.go
- | ---- okp_test.go

- | ---- okt_token.go
- | ---- ont.go
- | |----- polkadot.go
- | ---- polygon.go
- polygon_token.go
- | ---- qtum.go
- | token.go
- | ----ronin.go
- ronin_token.go
- dot.go
- | | eip712.go

- | | L----- tron.go

solana.go solana_test.go starknet.go starknet_const.go tezos.go transaction act act_tx.go act_tx_test.go condition.go condition_test.go encoder.go encoder_test.go ark_tx.go bch bchutil address.go bitpayaddr.go bitpayaddr_test.go cashaddr.go cashaddr_test.go protocol.go seeds.go sign.go sign_test.go bitcoin bech32.go eos buyram.go bw.go decoder.go encoder.go eos_tx.go eos_tx_test.go name.go newaccount.go pubkey.go sellram.go transfer.go tx_factory.go eth_tx.go ethsign.go icx_tx.go

```
nas
  base58.go
  block.pb.go
  nas_tx.go
  nas_tx_test.go
neo
  bigint.go
  neo_tx.go
  opcode.go
  params_builder.go
okp_tx.go
okt
  address.go
  codec.go
  dec_coin.go
  decimal.go
  int.go
  key.go
  module.go
  msg.go
  sign.go
  std_tx.go
  stdsignmsg.go
  tx.go
  tx_test.go
  types.go
  utils.go
ont_tx.go
token
  abi.go
  big.go
  ethtoken.go
tron
  Discover.pb.go
  Tron.pb.go
  TronInventoryItems.pb.go
  account_contract.pb.go
  api.pb.go
  api_grpc.pb.go
  asset_issue_contract.pb.go
  balance_contract.pb.go
  common.pb.go
  exchange_contract.pb.go
```



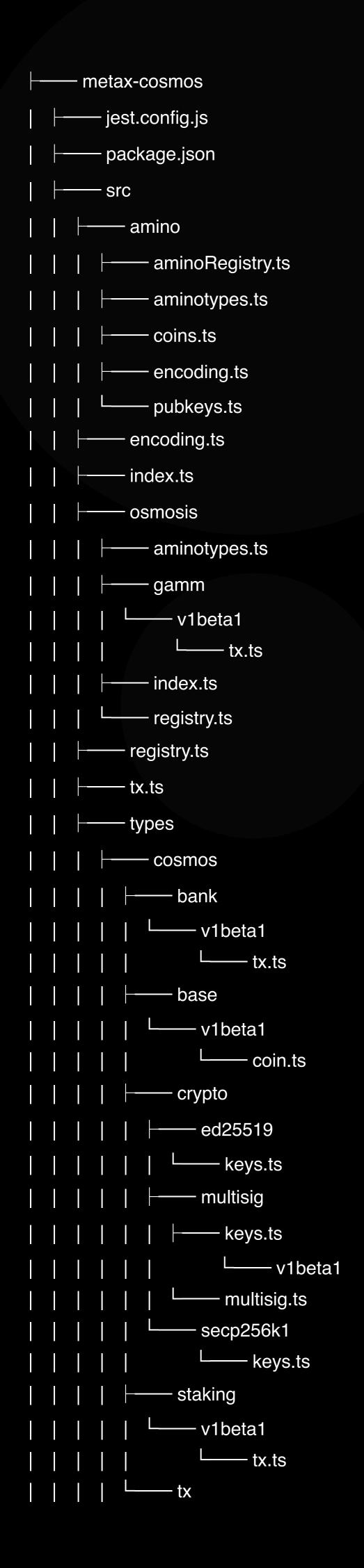
4.4 Chrome

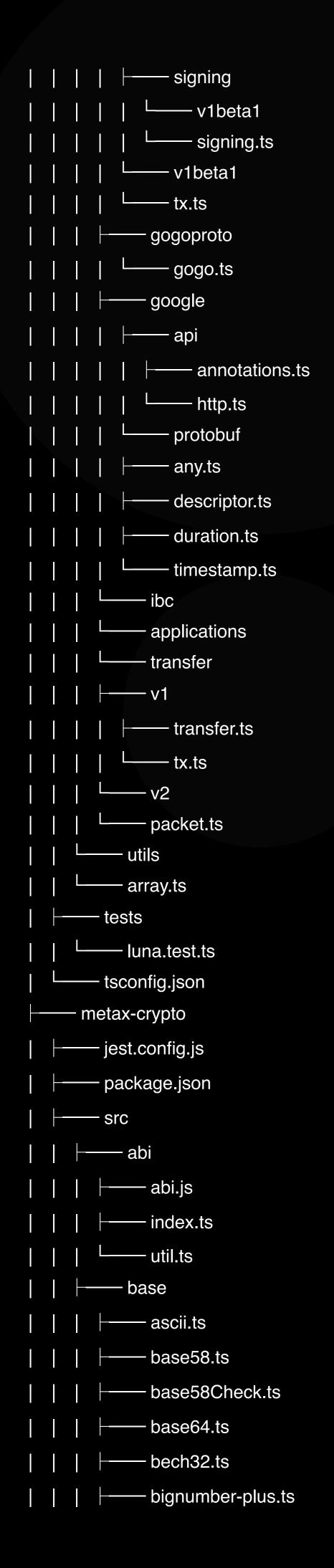
4.4.1 keyrings

├── KeyringController.js
KeyringController.test.js
— MultipleHDKeyring.js
— MultipleHDKeyring.test.js
— MultipleKeyring.md
— MultipleLedgerBridgeKeyring.js
— MultipleLedgerBridgeKeyring.test.j
— MultipleSimpleKeyring.js
— MultipleSimpleKeyring.test.js
— MultipleTrezorKeyring.js
— MultipleTrezorKeyring.test.js
chains
ethereum
HDKeyring.js
HDKeyring.test.js
SimpleKeyring.js
SimpleKeyring.test.js
Index.js
keyringUtils.js
keyringUtils.test.js
L—— utils
index.js
transfer.js
L transfer.test.js

4.4.2 js-signlayer

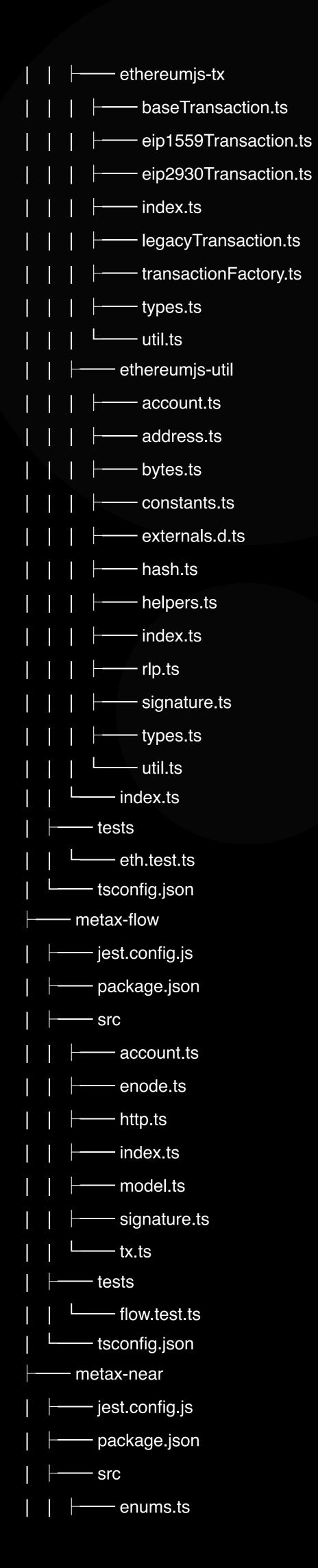
pac	kaç	ges	
		· m	etax-bitcoin
	-		jest.config.js
	-		package.json
	-		src
		_	— bitcoinjs-lib
			address.ts
			├ bip66.ts
			bufferutils.ts
			├── crypto.ts
			index.ts
			networks.ts
			ops.ts
			—— payments
			embed.ts
			├── index.ts
			│
			p2ms.ts
			p2pk.ts
			├── p2pkh.ts
			p2sh.ts
			├── p2wpkh.ts
			p2wsh.ts
1			push_data.ts
			script.ts
			script_number.ts
			script_signature.ts
			transaction.ts
			├ types.ts
			├── varuint.d.ts
			L varuint.js
		_	— index.ts
1			— txBuild.ts
		_	— type.ts
			— wif.ts
			tests
			— btc.test.ts
			tsconfig.json





```
hash.ts
   helper.ts
  hex.ts
  hmac.ts
  index.ts
   precondtion.ts
  rlp.ts
  utf8.ts
bip32
  api.ts
  bip32.ts
  index.ts
bip39
  wordlists.ts
  index.ts
  wordlists
  chinese_simplified.json
  chinese_traditional.json
   czech.json
  english.json
  french.json
  italian.json
   japanese.json
   korean.json
   portuguese.json
  spanish.json
elliptic
  curve
     base.js
     edwards.js
     index.js
     mont.js
     short.js
  curves.js
  ec
     index.js
     key.js
     signature.js
   eddsa
     index.js
     key.js
     signature.js
```





	index.ts
1.1	keypair.ts
	serialize.ts
	L transaction.ts
	test
	l near.test.ts
L	tsconfig.json
-	— metax-polkadot
-	jest.config.js
	—— package.json
	src
М	address.ts
	bn.ts
	const.ts
$ \cdot $	hex.ts
	index.ts
	is.ts
	object.ts
11	string.ts
	tx.ts
	types.ts
	Lu8a.ts
-	—— tests
	L dot.test.ts
L	tsconfig.json
_	— metax-signlayer
	—— jest.config.js
	—— package.json
	src
	api.ts
	basic
1 1	ed25519.ts
	L typeUtils.ts
	coins
	Hand BtcWallet.ts
	EthWallet.ts
$ \cdot $	SolWallet.ts
	├── TrxWallet.ts
	index.ts
1 1	common.ts
	currency.ts
1 1	error.ts
	index.ts
	L wallet.ts



 instruction.ts	
keypair.ts	
 layout.ts	
message.ts	
nonce-account.ts	
— publickey.ts	
stake-program.ts	
system-program.ts	
sysvar.ts	
transaction-constants.ts	
transaction.ts	
L—— util	
assert.ts	
bigint.ts	
borsh-schema.ts	
cluster.ts	
promise-timeout.ts	
shortvec-encoding.ts	
sleep.ts	
to-buffer.ts	
tx-expiry-custom-errors.ts	
L url.ts	
tests	
L sol.test.ts	
tsconfig.json	
metax-tron	
jest.config.js	
package.json	
src	
index.ts	
protobuf	
Contract.proto	
Discover.proto	
tron.d.ts	
tron.js	
tron.proto	
tronUtils.ts	
tests	
trx.test.ts tsconfig.json	

審計報告匯總

1. 審計方式

通過清晰地理解該項目的設計目的、運行原理和實現管道,稽核團隊對合約程式碼進行了深入的研究和分析。 在理清各個函數的調用關係的基礎上,對錢包可能存在的漏洞進行了定位及分析。 最終產生問題描述和給出相應的修改意見。

審計方法	Static analysis, Manual Review, Fuzzing Test

2. 審計流程

步驟	操作	詳細內容
1	背景研究	閱讀項目介紹、白皮書、合約源碼等項目方團隊提供的相關信息,確保正確理解項目功能
2	自動化檢測	主要用自動化工具掃描源碼,找到常見的潛在漏洞
3	人工審閱	工程師逐行閱讀代碼,找到潛在漏洞
4	邏輯校對	工程師將對代碼的理解和項目方提供的信息比較,檢查代碼實現是否符合項目白皮書信息
5	測試用例檢測	包括測試用例設計,測試範圍分析、符號執行等
6	優化審查	根據應用場景、調用方式及最新的研究成果從可維護性、安全性及可操作性等方面審查項目

3. 風險分級

風險級別	風險描述
致命	存在致命風險及隱患,需要立即解決
高危	存在高危風險及隱患,將引發相同問題,必須解決
中度	存在中度風險及隱患,可能導致潛在風險,最終仍然需要解決
低危	存在低風險及隱患,指各類處理不當或會引發警告信息的細節,這類問題可暫時擱置
建議	存在可優化的部分,這類問題可以擱置,但建議最終解決

4. 審計結果



編號	審計項目	風險級別	狀態
1	私密金鑰洩露	無	
2	助記詞洩露	無	
3	密碼洩露	無	
4	地址派生不安全	無	
5	亂數不安全	中	已告知
6	簽名不當	無	
7	hash算灋使用不當	中	已告知
8	存儲不安全	無	
9	網絡劫持風險	無	
10	跨域風險	無	
11	偽造簽名風險	無	

編號	審計項目	風險級別	狀態
12	數據隱私洩露	無	
13	鑒權不當	無	
14	關鍵字使用不規範	無	
15	條件判斷不規範	無	
16	變數不規範	無	
17	使用不推薦/過期的方法	中	已告知
18	未遵循基本編碼原則	無	
19	WriteFile許可權過高	中	已告知

上述表格中,狀態欄內容若為「已告知」,則表示審計團隊已告知項目方項目存在的漏洞,但項目方未對漏洞進行修改,或未告知審計團隊漏洞的修改進度。若狀態欄中填寫「已修改」則表示項目方已進行對漏洞的修改,並通過審計團隊確認。

5. 風險項與修改方案

以下部分為審計後得知的風險項相關詳細信息,其中內容包括風險類型、風險級別、問題位置、問題描述、修改建議及項目方反饋。

5.1 Wallet-Core

1. 亂數不安全

位置	文件	風險状态	風險級別
Line 106	bip39.go	<u>♣</u> 已告知	中風險

① 風險描述

在go語言中亂數函數rand()不被認為具有加密强度。 攻擊者可能預測這些函數生成的亂數達到攻擊目的。 在CVE-2009-3278明確指出Crypto產品使用rand()庫函數生成恢復金鑰,存在暴力破解可能。

② 修改建議

建議使用强亂數函數

③ 關聯程式碼

```
Go/**
*//

// NewEntropy will create random entropy bytes

// so long as the requested size bitSize is an appropriate size.

//

// bitSize has to be a multiple 32 and be within the inclusive range of {128, 256} func NewEntropy(bitSize int) ([]byte, error) {
    err := validateEntropyBitSize(bitSize)
    if err != nil {
        return nil, err
    }

    //@OKLink Audit Description: 使用弱亂數函數rand ()

    //@OKLink Audit Solution: 使用强亂數函數

    entropy := make([]byte, bitSize/8)
    _, err = rand.Read(entropy)
    return entropy, err
}
```

2. hash算灋使用不當

位置	文件	風險状态	風險級別
Line 1973	opcode.go	<u>♣</u> 已告知	中風險

① 風險描述

在go庫檔案中表示SHA-1算灋已被破解,不應用於安全應用程序。

② 修改建議

建議使用未破解hash算灋

③ 關聯程式碼

```
Go/**

*//

// opcodeShal treats the top item of the data stack as raw bytes and replaces it

// with shal(data).

//

// Stack transformation: [... x1] -> [... shal(x1)]

func opcodeShal(op *parsedOpcode, vm *Engine) error {
    buf, err := vm.dstack.PopByteArray()
    if err != nil {
        return err
    }

//@OKLink Audit Description: 使用已破解hash算灋sha-1
    //@OKLink Audit Solution: 使用未破解hash算灋

hash := shal.Sum(buf)
    vm.dstack.PushByteArray(hash[:])
    return nil
}
```

3. WriteFile許可權過高

位置	文件	風險状态	風險級別
Line 99	signif.go	<u>!</u> 已告知	中風險

① 風險描述

當WriteFile許可權過高,攻擊者可能能够創建或覆蓋用於執行程式碼的關鍵檔案,例如程式、庫或重要數據。 攻擊者也可能讀取意外檔案的內容並暴露敏感數據。 在SignFile函數中WriteFile用做對傳入檔案的簽名輸出,低許可權能保持正常功能運行,高許可權存在風險可能。

② 修改建議

建議WriteFile許可權應小於等於600

③ 關聯程式碼

```
Go/**
// SignFile creates a signature of the input file.
//
// This accepts base64 keys in the format created by the 'signify' tool.
// The signature is written to the 'output' file.
func SignFile(input string, output string, key string, untrustedComment string,
trustedComment string) error {
    • • •
     // Create the main data signature.
     rawSig := ed25519.Sign(skey, filedata)
     var dataSig []byte
     dataSig = append(dataSig, header...)
     dataSig = append(dataSig, keyNum...)
     dataSig = append(dataSig, rawSig...)
     // Create the comment signature.
     var commentSigInput []byte
     commentSigInput = append(commentSigInput, rawSig...)
     commentSigInput = append(commentSigInput, []byte(trustedComment)...)
     commentSig := ed25519.Sign(skey, commentSigInput)
     //@OKLink Audit Description: WriteFile許可權過高
     //@OKLink Audit Solution: WriteFile許可權應小於等於600
     // Create the output file.
     var out = new(bytes.Buffer)
     fmt.Fprintln(out, "untrusted comment:", untrustedComment)
     fmt.Fprintln(out, base64.StdEncoding.EncodeToString(dataSig))
     fmt.Fprintln(out, "trusted comment:", trustedComment)
     fmt.Fprintln(out, base64.StdEncoding.EncodeToString(commentSig))
     return ioutil.WriteFile(output, out.Bytes(), 0644)
```

5.2 Chrome

1. 使用不推薦/過期的方法

位置	文件	風險状态	風險級別
Line24, Line1123, Line6187	js-signlayer: packages/metax- crypto/package.json	<u>♪</u> 已告知	中風險

① 風險描述

庫過期問題,加密庫使用的elliptic過期包版本(6.4.14)會引入以下三個漏洞,包含兩個中危一個高危。

中危: https://security.snyk.io/vuln/SNYK-JS-ELLIPTIC-1064899

私密金鑰洩露:通過elliptic/ec/key. js中的secp256k1實現,此套裝軟體的受影響版本容易受到加密問題的攻擊。沒有檢查以確認傳遞到派生函數中的公開金鑰點實際上存在於secp256k1曲線上。這導致在執行多個ECDH操作後,可能會顯示此實現中使用的私密金鑰。

中危: https://security.snyk.io/vuln/SNYK-JS-ELLIPTIC-511941

私密金鑰洩露:在某些條件下,可以實際恢復庫生成的長期私密金鑰。在標量乘法期間,在橢圓曲線上可能出現標量的比特長度洩漏,這可能允許實際恢復長期私密金鑰。

高危: https://security.snyk.io/vuln/SNYK-JS-ELLIPTIC-571484

elliptic允許ECDSA簽名通過編碼變化、前導\0位元組或整數溢出進行延展。 如果應用程序依賴於單個規範 簽名,這可能會產生與安全相關的影響。

② 修改建議

建議更改包版本為6.5.4

③ 關聯程式碼

```
Json/**
"devDependencies": {
    "@types/elliptic": "6.4.14",
    • • •
  "node_modules/@types/elliptic": {
    "version": "6.4.14",
    "resolved": "https://registry.npmmirror.com/@types/elliptic/-/elliptic-6.4.14.tgz",
    "integrity": "sha512-z40BcDAU0GVwDTuwJzQCiL6188QvZMkvoERgcVjq0/
mPM8jCfdwZ3x5zQEVoL9WCAru3aG5wl3Z5Ww5wBWn7ZQ==",
    "dev": true,
    "dependencies": {
      "@types/bn.js": "*"
    }
  },
  "@types/elliptic": {
    "version": "6.4.14",
    "resolved": "https://registry.npmmirror.com/@types/elliptic/-/elliptic-6.4.14.tgz",
    "integrity": "sha512-z40BcDAU0GVwDTuwJzQCiL6188QvZMkvoERgcVjq0/
mPM8jCfdwZ3x5zQEVoL9WCAru3aG5wl3Z5Ww5wBWn7ZQ==",
    "dev": true,
    "requires": {
      "@types/bn.js": "*"
    }
  },
```

6. 版本安全優勢

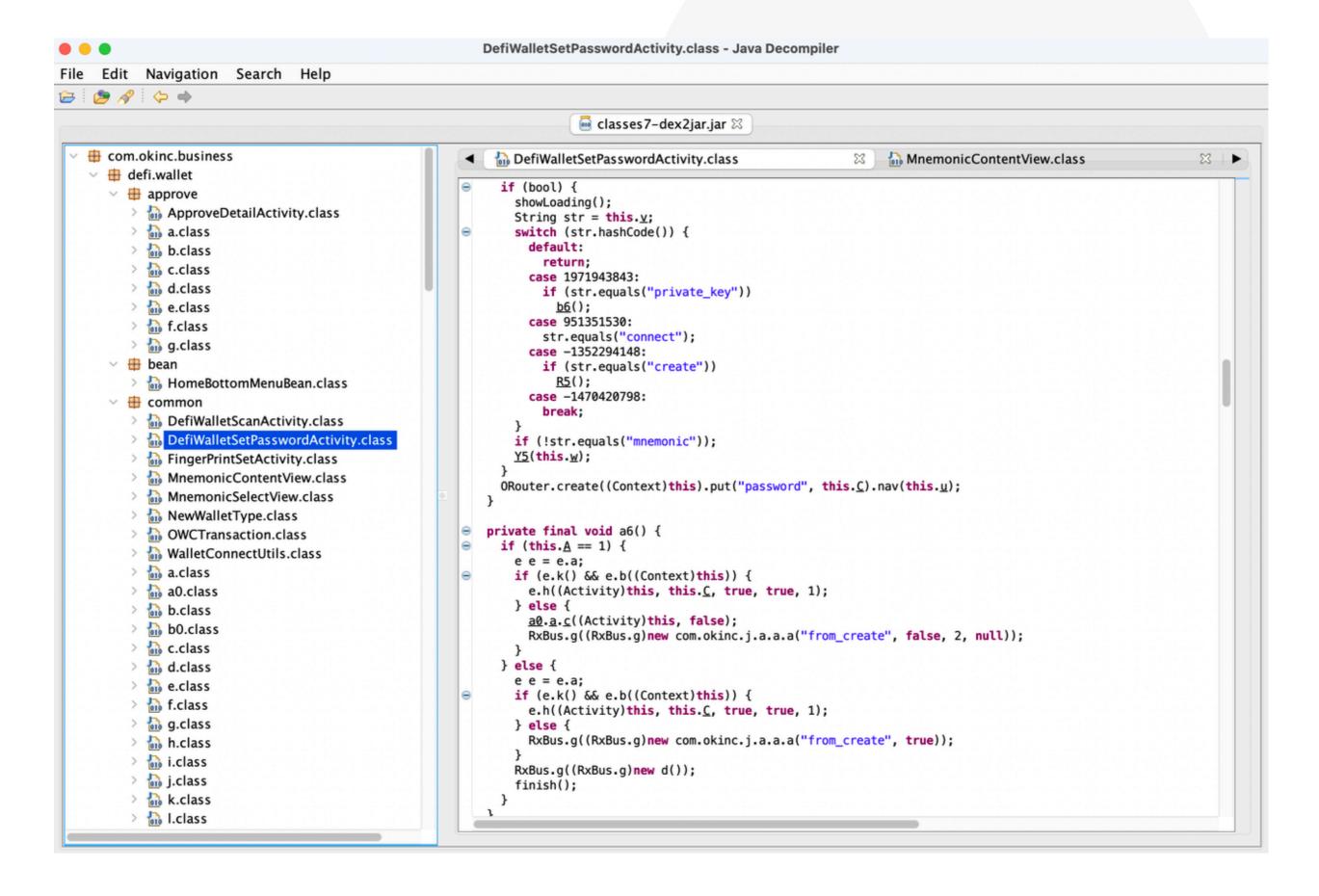
以下部分為審計該版本后得出的採取多維度手段加固達到安全優勢

6.1 Android

<u>稽核未發現明顯漏洞,亂數和網絡請求部分均符合安全要求。 常規安全加固方面符合基本安</u> <u>全要求</u>

6.1.1 程式碼混淆

程式碼已進行混淆, 防止反編譯出原始程式碼。



6.1.2 簽名證書

APP使用了正式證書進行簽名,不是使用的debug版本證書。

```
(base) oker@okerdembp-137 okx-android % keytool --printcert --file META-
INF/CERT.RSA
Owner: CN=OK inc., OU=OK inc., O=OK inc., L=Beijing, ST=Beijing, C=CN
Issuer: CN=OK inc., OU=OK inc., O=OK inc., L=Beijing, ST=Beijing, C=CN
Serial number: 3bd2d760
Valid from: Tue Dec 20 15:39:29 CST 2016 until: Thu Nov 26 15:39:29 CST
2116
Certificate fingerprints:
         SHA1: 46:17:0C:99:DC:92:90:BA:D5:F3:CD:F6:C1:30:D8:42:5D:93:6D:77
         SHA256:
77:B9:67:49:D8:F5:A4:F0:79:AB:17:36:18:4A:1B:D2:87:0D:02:CA:14:CD:1C:A9:FF
:BD:A8:1A:CB:65:10:E9
Signature algorithm name: SHA256withRSA
Subject Public Key Algorithm: 2048-bit RSA key
Version: 3
Extensions:
#1: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
KeyIdentifier [
0000: 47 E8 D6 8A 5C E3 77 F8 1F 28 49 7D C6 BF 9F 36 G...\.w..(I....6
0010: DE 2D 41 1D
                                     .-A.
```

6.1.3 行為分析

i. 截圖限制

有截圖提醒,但是沒有限制截圖,助記詞有洩漏風險。建議新增截圖檢測並限制截圖功能。

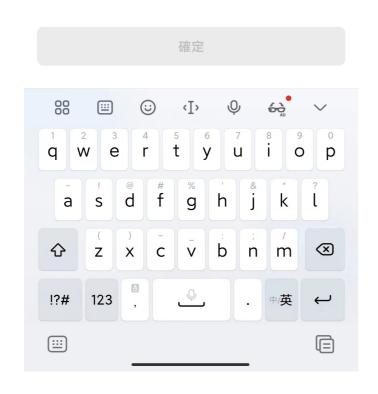




ii. 安全鍵盤

輸入助記詞未採用安全鍵盤,助記詞有洩露風險。 建議輸入密碼,助記詞等關鍵資訊時,採用安全鍵盤實現,防止關鍵資訊洩漏。





6.2 IOS

稽核未發現明顯漏洞,亂數和網絡請求部分均符合安全要求。

IOS關聯程式碼

```
Objective-C/**
   OKWMnemonic.m
   OKWalletDeFi
   Created by Lydia on 2021/6/21.
11
#import "OKWMnemonic.h"
#import "OKWBridge.h"
@implementation OKWQuestion
@end
@implementation OKWMnemonic
+ (NSString*)normalizePhrase:(NSString*)phrase {
 (OKWMnemonic *)createMnemonic:(NSString *)phrase {
    //@OKLink Audit Description: 未保存用戶助記詞
  (OKWMnemonic *)createNewMnemonic {
    OKWBridgeResult* result = [OKWBridge randomMnemonic:@"english"];
    return [[OKWMnemonic alloc] initWithPhrase:result.result language:@"english"];
+ (NSArray<NSString *> *)getWordList {
    return [OKWBridge getWordList:@"english"].result;
- (instancetype)initWithPhrase:(NSString *)phrase language:(NSString *)language {
- (NSArray*)getRandomFrom:(NSArray<NSString*>*)list count:(NSInteger)count excludes:
(NSArray*)excludes {
   NSSet* excludesSet = [NSSet setWithArray:excludes];
   NSMutableArray* result = [NSMutableArray array];
   NSUInteger length = list.count;
   NSMutableDictionary* token = [NSMutableDictionary dictionary];
    while (count > 0) {
    //@OKLink Audit Description: 使用arc4random偽亂數發生器,不暴露seed,精度和安全性得到保障
       NSInteger x = arc4random() % length;
       NSInteger index = x;
       if (token[@(x)]) {
           index = [token[@(x)] integerValue];
       NSString* str = list[index];
       if (![excludesSet containsObject:str] && ![result containsObject:str]) {
           count--;
           length--;
           [result addObject:str];
           token[@(index)] = token[@(length)] ?: @(length);
   return result;
@end
```

6.3 Chrome

6.3.1 行為分析

Chrome挿件共有以下幾種請求:

i. 數據讀取 (未發現問題)

• 請求代幣價格數據

	POST /v1/deposit/plugin/market HTTP/1.1
Host	wallet.okex.org
Connection	keep-alive
Content- Length	150
sec-ch-ua	"Chromium":v="104","NotA;Brand":v="99","MicrosoftEdge":v="104"
plugin- version	2.8.0
currency	usd
x-cdn	https://static.coinall.Itd
devid	b021598e-4fc3-497d-bf8b-6c61273fa9c1
locale	zh_CN
User-Agent	Mozilla/5.0(Macintosh;IntelMacOSX10_15_7)AppleWebKit/537.36(KHTML,likeGecko)Chrome/104.0.5112.81Safari/537.36Edge/104.0.1:
Content- Type	application/json;charset=UTF-8
Accept	application/json,text/plain,*/*
sec-ch-ua- mobile	?0
plugin- build-	aed5-08-05-14:02
sec-ch-ua- platform	"macOS"
Origin	chrome-extension://mcohilncbfahbmgdjkbpemcciiolgcge
Sec-Fetch- Site	none
Sec-Fetch- Mode	cors
Sec-Fetch- Dest	empty
Accept- Encoding	gzip,deflate,br
Accept- Language	zh-CN,zh;q=0.9,en;q=0.8,en-GB;q=0.7,en-US;q=0.6
Cookie	locale=zh_CN;aliyungf_tc=a58a3951349e383f285aa82bfc51776e69ce4c4976f2e6dc427a322d91ba4410

請求: https://wallet.okex.org/v1/deposit/plugin/market

返回(見程式碼):

• 請求國家資訊

	GET /v3/users/mobile/support/common/check-country-limit?type=2 HTTP/1.1
Host	wallet.okex.org
Connection	keep-alive
sec-ch-ua	"Chromium"; V="104", " Not A; Brand"; v="99", "Microsoft Edge"; V="104"
plugin- version	2.8.0
x-cdn	https://static.okx.com
devid	b021598e-4fc3-497d-bf8b-6c61273fa9c1
locale	zh_CN
User-Agent	Mozilla/5.0 (Macintosh; Intel Mac OS X10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/ 104.0.5112.81 Safari/537.36Edge/104.0.1:
Accept	application/json, text/plain,
sec-ch-ua- mobile	?0
plugin- build-	aed5-08-05-14:02
sec-ch-ua- platform	"macOS"
Sec-Fetch- Site	none
Sec-Fetch- Mode	cors
Sec-Fetch- Dest	empty
Accept- Encoding	gzip, deflate, br
Accept- Language	zh-CN,zh;q=0.9,en;q=0.8,en-GB:q=0.7,en-US;q=0.6
Cookie	locale=zh_CN;aliyungf_tc=a58a3951349e383f285aa82bfc51776e69ce4c4976f2e6dc427a322d91ba4410

請求: https://wallet.okex.org/v3/users/mobile/support/common/check-country-limit?type=2

返回(見程式碼):

```
Json/**
    "code": 0,
    "data": {
            "cefi": null,
            "web3": {
                    "country": "CN",
                    "displayCountryName": "中国",
                    "kycLevel": 0,
                    "limit": false,
                    "politStatus": 0,
                    "province": "",
                    "provinceCode": ""
    },
    "detailMsg": "",
    "error_code": "0",
    "error_message": "",
    "msg": ""
```

• 請求NFT數據

請求: https://wallet.okex.org/priapi/v1/nft/wallet/plugin/queryCollectedNfts?
address=0x115cdafa75447213aa8c03f899ecefa519495f20&project=&chain=&saleStatus=&pageNo=
1&pageSize=1000

返回(見程式碼):

```
Json/**
    "code": 0,
    "data": {
            "cursor": "",
            "list": [{
                    "bestOffer": null,
                    "certificateFlag": 0,
                    "chain": 137,
                    "chainIcon": "https://static.okx.com/cdn/assets/imgs/223/
EA2F7582FE6CA66B.png?x-oss-process=image/format,webp/resize,w_300",
                    "chainName": "Polygon",
                    "collectionName": "east-rfox-collection",
                    "contractAddress": "0x3a2d9ed0bbc72fc480037857a0edfb8bf1b0eca7",
                    "coverUrl": "",
                    "favCount": 0,
                    "id": 5848142524198055,
                    "imxStatus": "",
                    "info": "The RFOX is a metaverse for retail. We combine an
immersive retail experience with elements of gaming, social media, and digital events,
all built on Virtual Reality and with mobile users in mind. Welcome to the future of
connectivity. Visit [our site](https://rfoxnft.site) to invest more",
                    "isFav": false,
                    "lastPrice": null,
                    "name": "RFOX_VALT SHOP PIX_12 #1",
                    "newNft": false,
                    "ownerAddress": "0xc4cb172e4e781a5889b9fa423d78d78920162f6e",
                    "project": 426105,
                    "projectName": "East RFOX Collection",
                    "rankNum": null,
                    "rarity": [],
                    "resourceType": 1,
                    "resourceUrl": "https://static.okx.com/cdn/nft/02f77534-8483-4a2d-
a99c-b7d73dea2126.gif?x-oss-process=image/resize,w_300,h_300/format,gif",
                    "sale": null,
                    "status": "",
                    "tack": 0,
                    "tokenId": "1",
                    "tokenStandard": 2,
                    "total": 1,
                    "txns": 0
            },...
```

ii. 以轉帳交易為例的交易json發送(未發現數據洩露)

第一次請求(見程式碼):

第二次請求:發送交易(見程式碼):

第三次請求:獲取交易狀態(見程式碼):

第四次請求(見程式碼):

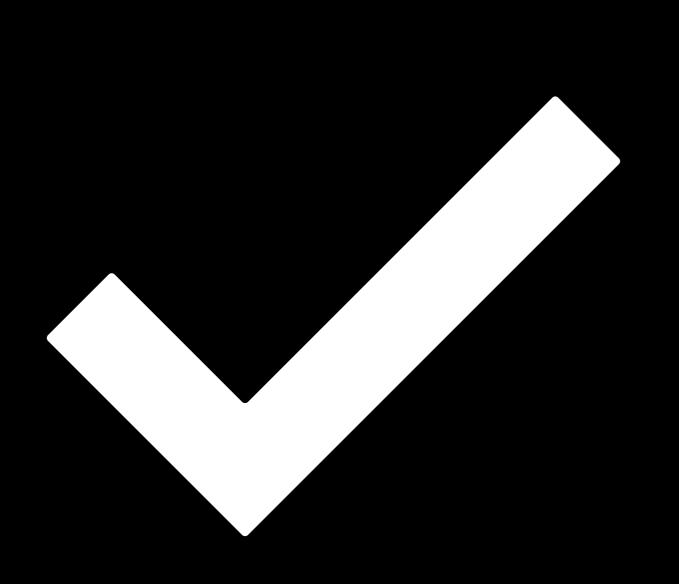
```
Json/**
第一次請求:
{
        "arg": {
                "channel": "wallet-asset"
        },
        "data": {
                "address": "0x115cdafa75447213aa8c03f899ecefa519495f20",
                "baseCoinId": 0,
                "chainId": 1,
                "coinAmount": 645982817148801,
                "coinAmountDec": 0.000645,
                "coinAmountOriginalDec": "0.000645982817148801",
                "coinId": 3,
                "currencyAmount": 1.282062717710711,
                "dailyChange": 0,
                "decimalNum": 18,
                "isCustomToken": false,
                "isNativeToken": true,
                "logo": "https://static.coinall.ltd/cdn/wallet/logo/ETH-20220328.png",
                "name": "Ethereum",
                "symbol": "ETH",
                "tokenAddress": "",
                "type": "",
                "vDecimalNum": 6
        }
}
```

```
Json/**
第二次請求:發送交易
{
    "arg": {
            "channel": "wallet-transaction"
    },
    "data": {
            "address": "0x115cdafa75447213aa8c03f899ecefa519495f20",
            "chainDecimalNum": 18,
            "chainSymbol": "ETH",
            "chainVdecimalNum": 6,
            "coinAmount": 0.0001000000000000,
            "coinAmountNum": 10000000000000,
            "coinId": 3,
            "coinSymbol": "ETH",
            "confirmedCount": 0,
            "currencyAmount": 0.10592414795627127,
            "decimalNum": 18,
            "deleteSwitch": true,
            "direction": 2,
            "from": "0x115cdafa75447213aa8c03f899ecefa519495f20",
            "gasLimit": 21000,
            "gasPrice": 13918000000,
            "isOkexWallet": true,
            "isShowCancel": false,
            "isShowPending": false,
            "isShowSpeedUp": false,
            "isShowSpeedupCancel": false,
            "network": "Ethereum",
            "nonce": 62,
            "priorityFee": 0,
            "repeatTxType": 0,
            "rowId": "1660482550000",
            "serviceCharge": 292278000000000,
            "showCancel": false,
            "showPending": false,
            "showSpeedUp": false,
            "showSpeedupCancel": false,
            "to": "0x8e4cf799b68f01f3a54c7154eeb1d94cc26fbce9",
            "totalConfirm": 12,
            "txId": "4G94nIIBtvh3TkmG-AiD",
            "txSource": 1,
            "txStatus": 2,
            "txTime": 1660482550000,
            "txType": 2,
            "txhash": "0x2223cd17dcd46e679469fb0a8d83723ef5374a2290826512184ba04779b9f765",
            "url": "https://www.oklink.com/eth/tx/
0x2223cd17dcd46e679469fb0a8d83723ef5374a2290826512184ba04779b9f765",
            "vdecimalNum": 6
```

```
Json/**
第三次請求: 獲取交易狀態
    "arg": {
            "channel": "wallet-tx-status-toast"
    },
    "data": {
            "address": "0x115cdafa75447213aa8c03f899ecefa519495f20",
            "pushToastCode": 3,
            "pushToastParams": ["0.0001", "ETH"],
            "txHash":
"0x2223cd17dcd46e679469fb0a8d83723ef5374a2290826512184ba04779b9f765",
            "txId": "4G94nIIBtvh3TkmG-AiD",
            "txStatus": 4,
            "url": "https://www.oklink.com/eth/tx/
0x2223cd17dcd46e679469fb0a8d83723ef5374a2290826512184ba04779b9f765"
第四次請求:
    "arg": {
            "channel": "wallet-asset"
    },
    "data": {
            "address": "0x115cdafa75447213aa8c03f899ecefa519495f20",
            "baseCoinId": 0,
            "chainId": 1,
            "coinAmount": 645982817148801,
            "coinAmountDec": 0.000645,
            "coinAmountOriginalDec": "0.000645982817148801",
            "coinId": 3,
            "currencyAmount": 1.28206271771071088067,
            "dailyChange": 0,
            "decimalNum": 18,
            "isCustomToken": false,
            "isNativeToken": true,
            "logo": "https://static.coinall.ltd/cdn/wallet/logo/ETH-20220328.png",
            "name": "Ethereum",
            "symbol": "ETH",
            "tokenAddress": "",
            "type": "",
            "vDecimalNum": 6
}
```

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番片道過

日期 2022年8月15日

審計 歐科雲鏈

本次稽核主要涵蓋Android、IOS和Chrome流覽器外掛程式端的實現程式碼中用戶助記詞生成、私密金鑰創建、導入、加密存儲和解密私密金鑰進行網絡簽名交易的部分。稽核的主要目的是通過靜態分析和模糊測試的方法,結合人工稽核,給出Web3錢包的三種用戶端軟體在用戶私密金鑰保護和簽名交易等方面的安全性結論。