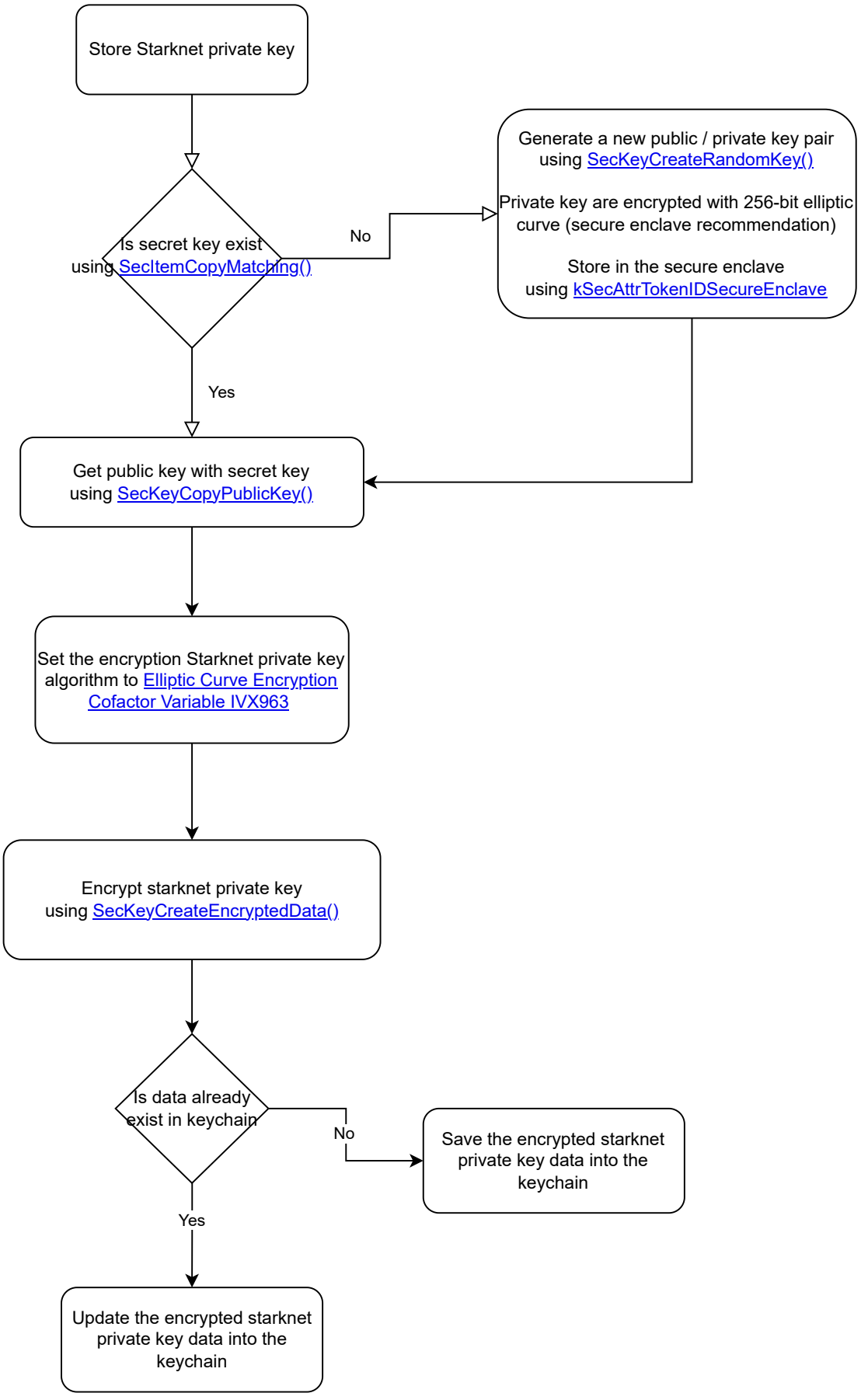
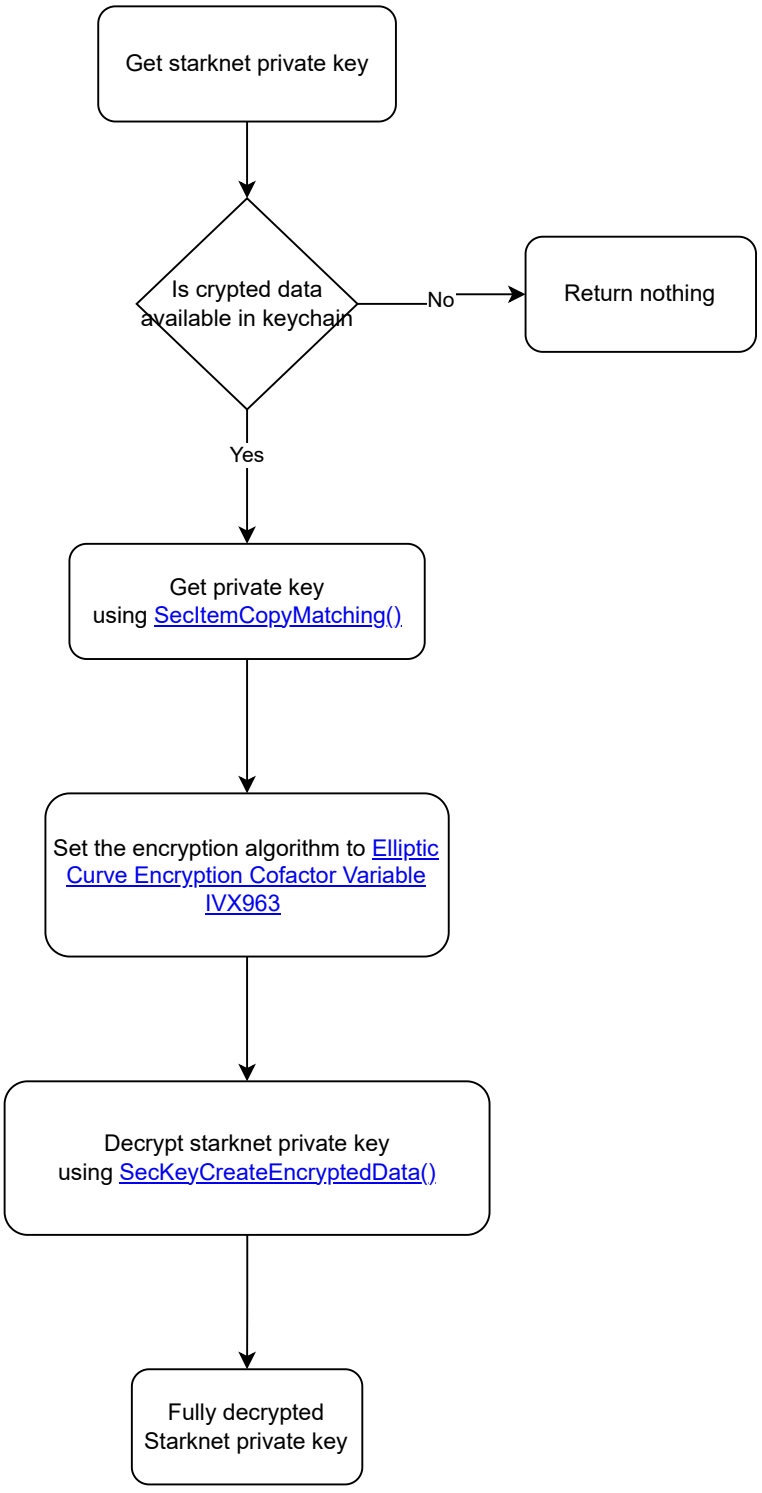

Store Starknet private key
Is secret key exist using SecItemCopyMatching()
No
Generate a new public / private key pair using SecKeyCreateRandomKey()
Private key are encrypted with 256-bit elliptic curve (secure enclave recommendation)
Store in the secure enclave using kSecAttrTokenIDSecureEnclave
Yes
Get public key with secret key using SecKeyCopyPublicKey()
Set the encryption Starknet private key algorithm to Elliptic Curve Encryption Cofactor Variable IVX963
Encrypt starknet private key using SecKeyCreateEncryptedData()
Is data already exist in keychain
No
Save the encrypted starknet private key data into the keychain
Yes
Update the encrypted starknet private key data into the keychain


Get starknet private key
Is crypted data available in keychain
No
Return nothing
Yes
Get private key using SecItemCopyMatching()
Set the encryption algorithm to Elliptic Curve Encryption Cofactor Variable IVX963
Decrypt starknet private key using SecKeyCreateEncryptedData()
Fully decrypted Starknet private key