

Namespace chia.dotnet.wallet

Classes

[AssetCoin](#)

Represents an asset coin, which is a coin that carries an asset ID and lineage proof.

[AssetToken<T>](#)

Represents a CAT

[AssetWallet](#)

Represents an asset wallet that manages asset tokens.

[KeyPair](#)

Represents a key pair consisting of a public key and an optional private key.

[KeyStore](#)

Represents a key store that holds private and public keys.

[SpendableAssetCoin](#)

Represents a spendable asset coin.

[StandardTransaction](#)

Represents a standard transaction in the Chia.NET wallet.

[StandardWallet](#)

Represents a standard wallet in the Chia.NET Wallet library.

[WalletOptions](#)

Represents the options for a wallet.

[Wallet<T>](#)

Represents an abstract wallet class that provides common functionality for different types of wallets.

Enums

[CoinSelection](#)

Represents the different strategies for selecting coins.

Class AssetCoin


Namespace: [chia.dotnet.wallet](#)

Assembly: chia-dotnet-wallet.dll

Represents an asset coin, which is a coin that carries an asset ID and lineage proof.

```
public class AssetCoin
```








Inheritance

[object](#)  ← AssetCoin

Derived

[SpendableAssetCoin](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#) 

Constructors

AssetCoin(CoinSpend, Coin, byte[]?)

Initializes a new instance of the [AssetCoin](#) class.

```
public AssetCoin(CoinSpend parentCoinSpend, Coin coin, byte[]? assetId = null)
```

Parameters

parentCoinSpend CoinSpend

The parent coin spend.

coin Coin

The coin.

assetId [byte](#)  []

The asset ID.

Properties

AssetId

Gets the asset ID of this asset coin.

```
public byte[] AssetId { get; init; }
```

Property Value

[byte\[\]](#)

Represents an asset coin, which is a coin that carries an asset ID and lineage proof.

Coin

Gets the underlying coin of this asset coin.

```
public Coin Coin { get; init; }
```

Property Value

Coin

Represents an asset coin, which is a coin that carries an asset ID and lineage proof.

LineageProof

Gets the lineage proof of this asset coin.

```
public Program LineageProof { get; init; }
```

Property Value

Program

Represents an asset coin, which is a coin that carries an asset ID and lineage proof.

ParentCoinSpend

Gets the parent coin spend associated with this asset coin.

```
public CoinSpend ParentCoinSpend { get; init; }
```

Property Value

CoinSpend

Represents an asset coin, which is a coin that carries an asset ID and lineage proof.

Class AssetToken<T>

Namespace: [chia.dotnet.wallet](#)

Assembly: chia-dotnet-wallet.dll

Represents a CAT


```
public class AssetToken<T> : Program where T : Program
```

Type Parameters



















T

A Program

Inheritance

[object](#)  ← Program ← AssetToken<T>

Inherited Members

Program.True , Program.False , Program.Nil , Program.FromCons(Program, Program) ,
[Program.FromBytes\(byte\[\]\)](#)  , Program.FromJacobianPoint(JacobianPoint) ,
Program.FromPrivateKey(PrivateKey) , [Program.FromHex\(string\)](#)  , [Program.FromBool\(bool\)](#)  ,
[Program.FromInt\(long\)](#)  , [Program.FromBigInt\(BigInteger\)](#)  , [Program.FromText\(string\)](#)  ,
[Program.FromSource\(string\)](#)  , [Program.FromList\(IEnumerable<Program>\)](#)  ,
[Program.Deserialize\(byte\[\]\)](#)  , [Program.DeserializeHex\(string\)](#)  , Program.At(Position) ,
[Program.Curry\(IEnumerable<Program>\)](#)  , Program.Uncurry() , Program.Hash() , Program.HashHex() ,
Program.Define(Program) , [Program.DefineAll\(IEnumerable<Program>\)](#)  ,
Program.Compile(CompileOptions) , Program.Run(Program, RunOptions) , Program.ToBytes() ,
Program.ToJacobianPoint() , Program.ToPrivateKey() , Program.ToHex() , Program.ToBool() ,
Program.ToInt() , Program.ToBigInt() , Program.ToText() , [Program.ToSource\(bool\)](#)  ,
[Program.ToList\(bool\)](#)  , Program.Serialize() , Program.SerializeHex() , Program.Equals(Program) ,
Program.ToString() , Program.Value , Program.IsAtom , Program.IsCons , Program.IsNull , Program.Atom ,
Program.Cons , Program.First , Program.Rest , Program.PositionSuffix , Program.Position ,
[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,
[object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#) 

Constructors

AssetToken(byte[], T)

Represents a CAT

```
public AssetToken(byte[] assetId, T innerPuzzle)
```

Parameters

assetId [byte\[\]](#)

The asset id

innerPuzzle T

The inner puzzle program

Properties

AssetId

The Token's asset id

```
public byte[] AssetId { get; init; }
```

Property Value

[byte\[\]](#)

Represents a CAT

InnerPuzzle

The tokens inner puzzle Program

```
public T InnerPuzzle { get; init; }
```

Property Value

T

Represents a CAT

Class AssetWallet

Namespace: [chia.dotnet.wallet](#)

Assembly: chia-dotnet-wallet.dll








Represents an asset wallet that manages asset tokens.

```
public class AssetWallet : Wallet<AssetToken<StandardTransaction>>
```

Inheritance

[object](#)  ← [Wallet](#) [<AssetToken<StandardTransaction>>](#) > ← AssetWallet

Inherited Members

[Wallet<AssetToken<StandardTransaction>>.Node](#) ,
[Wallet<AssetToken<StandardTransaction>>.KeyStore](#) ,
[Wallet<AssetToken<StandardTransaction>>.Options](#) ,
[Wallet<AssetToken<StandardTransaction>>.CoinRecords](#) ,
[Wallet<AssetToken<StandardTransaction>>.ArtificialCoinRecords](#) ,
[Wallet<AssetToken<StandardTransaction>>.PuzzleCache](#) ,
[Wallet<AssetToken<StandardTransaction>>.CoinRecordIndex\(CoinRecord\)](#) ,
[Wallet<AssetToken<StandardTransaction>>.Sync\(WalletOptions, CancellationToken\)](#) ,
[Wallet<AssetToken<StandardTransaction>>.FetchCoinRecords\(CancellationToken\)](#) ,
[Wallet<AssetToken<StandardTransaction>>.ClearUnconfirmedTransactions\(CancellationToken\)](#) ,
[Wallet<AssetToken<StandardTransaction>>.CreateSpend\(\)](#) ,
[Wallet<AssetToken<StandardTransaction>>.FindUnusedIndices\(int, List<int>, bool, CancellationToken\)](#) ,
[Wallet<AssetToken<StandardTransaction>>.GetBalance\(\)](#) ,
[Wallet<AssetToken<StandardTransaction>>.SelectCoinRecords\(BigInteger, CoinSelection, int, bool\)](#) ,
[Wallet<AssetToken<StandardTransaction>>.CompleteSpend\(SpendBundle, CancellationToken\)](#) ,
[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,
[object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Constructors

AssetWallet(FullNodeProxy, KeyStore, byte[], byte[]?,
WalletOptions?)

Initializes a new instance of the [AssetWallet](#) class.


```
public AssetWallet(FullNodeProxy node, KeyStore keyStore, byte[] assetId, byte[]?
hiddenPuzzleHash = null, WalletOptions? walletOptions = null)
```

Parameters

node FullNodeProxy

The full node proxy.

keyStore [KeyStore](#)

The key store.

assetId [byte](#)[]

The asset ID.

hiddenPuzzleHash [byte](#)[]

The hidden puzzle hash.

walletOptions [WalletOptions](#)

The wallet options.

Properties

AssetId

Gets the asset ID.

```
public byte[] AssetId { get; init; }
```

Property Value

[byte](#)[]

Represents an asset wallet that manages asset tokens.

HiddenPuzzleHash

Gets the hidden puzzle hash.

```
public byte[] HiddenPuzzleHash { get; init; }
```

Property Value

[byte](#)[]

Represents an asset wallet that manages asset tokens.

Methods

CreatePuzzle(KeyPair)

Creates a puzzle for the specified key pair.

```
public override AssetToken<StandardTransaction> CreatePuzzle(KeyPair keyPair)
```

Parameters

keyPair [KeyPair](#)

The key pair.

Returns

[AssetToken](#) <[StandardTransaction](#)>

The created asset token puzzle.

FindTail(CancellationToken)

Finds the tail of the asset token.

```
public Task<Program?> FindTail(CancellationToken cancellationToken = default)
```

Parameters

`cancellationToken` [CancellationToken](#)

The cancellation token.

Returns

[Task](#) <Program>

The tail of the asset token.

GetParentCoinSpend(CoinRecord, CancellationToken)

Gets the parent coin spend for the specified coin record.

```
public Task<CoinSpend> GetParentCoinSpend(CoinRecord coinRecord, CancellationTokencancellationToken = default)
```

Parameters

`coinRecord` CoinRecord

The coin record.

`cancellationToken` [CancellationToken](#)

The cancellation token.

Returns

[Task](#) <CoinSpend>

The parent coin spend.

SignSpend(SpendBundle, byte[])

Signs the spend bundle with the private keys in the key store.

```
public override SpendBundle SignSpend(SpendBundle spendBundle, byte[] aggSigMeExtraData)
```

Parameters

`spendBundle` SpendBundle

The spend bundle to sign.

`aggSigMeExtraData` [byte](#)[↗][]

The aggregated signature me extra data.

Returns

SpendBundle

The signed spend bundle.

Enum CoinSelection

Namespace: [chia.dotnet.wallet](#)

Assembly: chia-dotnet-wallet.dll

Represents the different strategies for selecting coins.

```
public enum CoinSelection
```

Fields

Largest = 1

Select the largest coins first.

Newest = 2

Select the newest coins first.

Oldest = 3

Select the oldest coins first.

Smallest = 0

Select the smallest coins first.

Class KeyPair

Namespace: [chia.dotnet.wallet](#)

Assembly: chia-dotnet-wallet.dll

Represents a key pair consisting of a public key and an optional private key.

```
public record KeyPair : IEquatable<KeyPair>
```








Inheritance

[object](#)  ← KeyPair

Implements

[IEquatable](#)  <[KeyPair](#)>

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#) 

Constructors

KeyPair(JacobianPoint, PrivateKey?)

Initializes a new instance of the [KeyPair](#) class.

```
public KeyPair(JacobianPoint publicKey, PrivateKey? privateKey = null)
```

Parameters

publicKey JacobianPoint

The public key.

privateKey PrivateKey

The private key. Can be null.

Properties

PrivateKey

Gets or sets the private key. Can be null if the private key is not available.

```
public PrivateKey? PrivateKey { get; init; }
```

Property Value

PrivateKey

Represents a key pair consisting of a public key and an optional private key.

PublicKey

Gets or sets the public key.

```
public JacobianPoint PublicKey { get; init; }
```

Property Value

JacobianPoint

Represents a key pair consisting of a public key and an optional private key.

Class KeyStore

Namespace: [chia.dotnet.wallet](#)

Assembly: chia-dotnet-wallet.dll

Represents a key store that holds private and public keys.

```
public class KeyStore
```

Inheritance

[object](#)  ← KeyStore

Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Constructors

KeyStore(object, bool)

Initializes a new instance of the [KeyStore](#) class.

```
public KeyStore(object key, bool hardened = false)
```

Parameters

key [object](#) 

The key to initialize the key store with.

hardened [bool](#) 

A value indicating whether the key store is hardened.

Exceptions

[ArgumentException](#) 

Thrown when the key is neither a PrivateKey nor a JacobianPoint.

Properties

Hardened

Gets or sets a value indicating whether the key store is hardened.

```
public bool Hardened { get; init; }
```

Property Value

[bool](#)

Represents a key store that holds private and public keys.

Keys

Gets or sets the list of key pairs.

```
public List<KeyPair> Keys { get; init; }
```

Property Value

[List](#) [KeyPair](#)

Represents a key store that holds private and public keys.

PrivateKey

Gets or sets the private key.

```
public PrivateKey? PrivateKey { get; init; }
```

Property Value

PrivateKey

Represents a key store that holds private and public keys.

PublicKey

Gets or sets the public key.

```
public JacobianPoint PublicKey { get; init; }
```

Property Value

JacobianPoint

Represents a key store that holds private and public keys.

Methods

Generate(int)

Generates the specified number of key pairs and adds them to the key store.

```
public void Generate(int amount)
```

Parameters

amount [int](#)

The number of key pairs to generate.

GenerateUntil(int)

Generates key pairs until the specified number of key pairs is reached.

```
public void GenerateUntil(int amount)
```

Parameters

amount [int](#)

The number of key pairs to generate.

Class SpendableAssetCoin


Namespace: [chia.dotnet.wallet](#)

Assembly: chia-dotnet-wallet.dll








Represents a spendable asset coin.

```
public class SpendableAssetCoin : AssetCoin
```

Inheritance

[object](#)  ← [AssetCoin](#) ← SpendableAssetCoin

Inherited Members

[AssetCoin.ParentCoinSpend](#) , [AssetCoin.AssetId](#) , [AssetCoin.LineageProof](#) , [AssetCoin.Coin](#) , [object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Constructors

SpendableAssetCoin(CoinSpend, Coin, Program, Program, int, byte[]?)

Initializes a new instance of the [SpendableAssetCoin](#) class.

```
public SpendableAssetCoin(CoinSpend parentCoinSpend, Coin coin, Program innerPuzzle, Program innerSolution, int extraDelta = 0, byte[]? assetId = null)
```

Parameters

parentCoinSpend CoinSpend

The parent coin spend.

coin Coin

The coin.

innerPuzzle Program

The inner puzzle program.

`innerSolution` Program

The inner solution program.

`extraDelta` [int](#)

The extra delta value.

`assetId` [byte](#) []

The asset ID.

Properties

ExtraDelta

Gets or sets the extra delta value.

```
public int ExtraDelta { get; init; }
```

Property Value

[int](#)

Represents a spendable asset coin.

InnerPuzzle

Gets or sets the inner puzzle program.

```
public Program InnerPuzzle { get; init; }
```

Property Value

Program

Represents a spendable asset coin.

InnerSolution

Gets or sets the inner solution program.

```
public Program InnerSolution { get; init; }
```

Property Value

Program

Represents a spendable asset coin.

Puzzle

Gets or sets the puzzle program.

```
public Program Puzzle { get; init; }
```

Property Value

Program

Represents a spendable asset coin.

Methods

CalculateDeltas(List<SpendableAssetCoin>)

Calculates the deltas based on the given spendable asset coins.

```
public static long[] CalculateDeltas(List<SpendableAssetCoin> spendableAssetCoins)
```

Parameters

spendableAssetCoins [List](#) [<SpendableAssetCoin>](#)

The spendable asset coins.

Returns

[long](#)[]

An array of deltas.

CalculateSubtotals(long[])

Calculates the subtotals based on the given deltas.

```
public static long[] CalculateSubtotals(long[] deltas)
```

Parameters

deltas [long](#)[]

The deltas.

Returns

[long](#)[]

An array of subtotals.

Class StandardTransaction

Namespace: [chia.dotnet.wallet](#)

Assembly: chia-dotnet-wallet.dll

Represents a standard transaction in the Chia.NET wallet.

```
public class StandardTransaction : Program
```

Inheritance

[object](#) ← Program ← StandardTransaction

Inherited Members

Program.True , Program.False , Program.Nil , Program.FromCons(Program, Program) ,
[Program.FromBytes\(byte\[\]\)](#) , Program.FromJacobianPoint(JacobianPoint) ,
Program.FromPrivateKey(PrivateKey) , [Program.FromHex\(string\)](#) , [Program.FromBool\(bool\)](#) ,
[Program.FromInt\(long\)](#) , [Program.FromBigInt\(BigInteger\)](#) , [Program.FromText\(string\)](#) ,
[Program.FromSource\(string\)](#) , [Program.FromList\(IEnumerable<Program>\)](#) ,
[Program.Deserialize\(byte\[\]\)](#) , [Program.DeserializeHex\(string\)](#) , Program.At(Position) ,
[Program.Curry\(IEnumerable<Program>\)](#) , Program.Uncurry() , Program.Hash() , Program.HashHex() ,
Program.Define(Program) , [Program.DefineAll\(IEnumerable<Program>\)](#) ,
Program.Compile(CompileOptions) , Program.Run(Program, RunOptions) , Program.ToBytes() ,
Program.ToJacobianPoint() , Program.ToPrivateKey() , Program.ToHex() , Program.ToBool() ,
Program.ToInt() , Program.ToBigInt() , Program.ToText() , [Program.ToSource\(bool\)](#) ,
[Program.ToList\(bool\)](#) , Program.Serialize() , Program.SerializeHex() , Program.Equals(Program) ,
Program.ToString() , Program.Value , Program.IsAtom , Program.IsCons , Program.IsNull , Program.Atom ,
Program.Cons , Program.First , Program.Rest , Program.PositionSuffix , Program.Position ,
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

Constructors

StandardTransaction(JacobianPoint)

Initializes a new instance of the [StandardTransaction](#) class with the specified synthetic public key.

```
public StandardTransaction(JacobianPoint syntheticPublicKey)
```


Parameters

syntheticPublicKey JacobianPoint

The synthetic public key to use.

Properties

SyntheticPublicKey

Gets or sets the synthetic public key associated with the transaction.

```
public JacobianPoint SyntheticPublicKey { get; init; }
```

Property Value

JacobianPoint

Represents a standard transaction in the Chia.NET wallet.

Methods

GetSolution(List<Program>)

Gets the solution program for the specified conditions.

```
public static Program GetSolution(List<Program> conditions)
```

Parameters

conditions [List](#)<Program>

The conditions to use in the solution.

Returns

Program

The solution program.

Spend(Coin, Program)

Creates a coin spend using the specified coin and solution program.

```
public CoinSpend Spend(Coin coin, Program solution)
```

Parameters

coin Coin

The coin to spend.

solution Program

The solution program to use.

Returns

CoinSpend

The created coin spend.

Class StandardWallet

Namespace: [chia.dotnet.wallet](#)

Assembly: chia-dotnet-wallet.dll








Represents a standard wallet in the Chia.NET Wallet library.

```
public class StandardWallet : Wallet<StandardTransaction>
```

Inheritance

[object](#)  ← [Wallet](#)  <[StandardTransaction](#)> ← StandardWallet

Inherited Members

[Wallet<StandardTransaction>.Node](#) , [Wallet<StandardTransaction>.KeyStore](#) ,
[Wallet<StandardTransaction>.Options](#) , [Wallet<StandardTransaction>.CoinRecords](#) ,
[Wallet<StandardTransaction>.ArtificialCoinRecords](#) , [Wallet<StandardTransaction>.PuzzleCache](#) ,
[Wallet<StandardTransaction>.CoinRecordIndex\(CoinRecord\)](#) ,
[Wallet<StandardTransaction>.Sync\(WalletOptions, CancellationToken\)](#) ,
[Wallet<StandardTransaction>.FetchCoinRecords\(CancellationTokens\)](#) ,
[Wallet<StandardTransaction>.ClearUnconfirmedTransactions\(CancellationTokens\)](#) ,
[Wallet<StandardTransaction>.CreateSpend\(\)](#) ,
[Wallet<StandardTransaction>.FindUnusedIndices\(int, List<int>, bool, CancellationToken\)](#) ,
[Wallet<StandardTransaction>.GetBalance\(\)](#) ,
[Wallet<StandardTransaction>.SelectCoinRecords\(BigInteger, CoinSelection, int, bool\)](#) ,
[Wallet<StandardTransaction>.CompleteSpend\(SpendBundle, CancellationToken\)](#) ,
[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,
[object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Constructors

StandardWallet(FullNodeProxy, KeyStore, byte[]?,
WalletOptions?)

Represents a standard wallet in the Chia.NET Wallet library.

```
public StandardWallet(FullNodeProxy node, KeyStore keyStore, byte[]? hiddenPuzzleHash =  
null, WalletOptions? walletOptions = null)
```

Parameters

node FullNodeProxy

Represents a standard wallet in the Chia.NET Wallet library.

keyStore [KeyStore](#)

Represents a standard wallet in the Chia.NET Wallet library.

hiddenPuzzleHash [byte](#)[]

Represents a standard wallet in the Chia.NET Wallet library.

walletOptions [WalletOptions](#)

Represents a standard wallet in the Chia.NET Wallet library.

Properties

HiddenPuzzleHash

Gets the hidden puzzle hash.

```
public byte[] HiddenPuzzleHash { get; }
```

Property Value

[byte](#)[]

Represents a standard wallet in the Chia.NET Wallet library.

Methods

CreatePuzzle(KeyPair)

Creates a puzzle for the specified key pair.

```
public override StandardTransaction CreatePuzzle(KeyPair keyPair)
```

Parameters

keyPair [KeyPair](#)

The key pair.

Returns

[StandardTransaction](#)

A new instance of the [StandardTransaction](#) class.

Send(byte[], long, long, CancellationToken)

Sends a transaction.

```
public Task<List<CoinSpend>> Send(byte[] puzzleHash, long amount, long fee,
CancellationToken cancellationToken = default)
```

Parameters

puzzleHash [byte](#)[]

The puzzle hash.

amount [long](#)

The amount to send.

fee [long](#)

The fee amount.

cancellationToken [CancellationToken](#)

The cancellation token.

Returns

[Task](#) <[List](#) <CoinSpend> >

A list of coin spends.

SendFee(long, CancellationToken)

Sends a fee transaction.

```
public Task<List<CoinSpend>> SendFee(long amount, CancellationToken cancellationToken  
= default)
```

Parameters

amount [long](#)

The amount to send as a fee.

cancellationToken [CancellationToken](#)

The cancellation token.

Returns

[Task](#) <[List](#) <CoinSpend> >

A list of coin spends.

SignSpend(SpendBundle, byte[])

Signs a spend bundle with the specified aggregated signature me extra data.

```
public override SpendBundle SignSpend(SpendBundle spendBundle, byte[] aggSigMeExtraData)
```

Parameters

spendBundle SpendBundle

The spend bundle to sign.

aggSigMeExtraData [byte](#)[]

The aggregated signature me extra data.

Returns

SpendBundle

The signed spend bundle.

Class WalletOptions

Namespace: [chia.dotnet.wallet](#)

Assembly: chia-dotnet-wallet.dll

Represents the options for a wallet.

```
public class WalletOptions
```

Inheritance

[object](#)  ← WalletOptions

Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Fields

DefaultWalletOptions

Gets the default wallet options.

```
public static readonly WalletOptions DefaultWalletOptions
```

Field Value

[WalletOptions](#)

Represents the options for a wallet.

Properties

InstantCoinRecords

Gets or sets a value indicating whether instant coin records are enabled.


```
public bool InstantCoinRecords { get; init; }
```

Property Value

[bool](#)

Represents the options for a wallet.

MaxAddressCount

Gets or sets the maximum address count.

```
public int MaxAddressCount { get; init; }
```

Property Value

[int](#)

Represents the options for a wallet.

MinAddressCount

Gets or sets the minimum address count.

```
public int MinAddressCount { get; init; }
```

Property Value

[int](#)

Represents the options for a wallet.

UnusedAddressCount

Gets or sets the count of unused addresses.

```
public int UnusedAddressCount { get; init; }
```

Property Value

[int](#)

Represents the options for a wallet.

Class Wallet<T>

Namespace: [chia.dotnet.wallet](#)

Assembly: chia-dotnet-wallet.dll

Represents an abstract wallet class that provides common functionality for different types of wallets.

```
public abstract class Wallet<T> where T : Program
```

Type Parameters

T

The type of program associated with the wallet.








Inheritance

[object](#)  ← Wallet<T>

Derived

[AssetWallet](#), [StandardWallet](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#) 

Constructors

Wallet(FullNodeProxy, KeyStore, WalletOptions?)

Represents an abstract wallet class that provides common functionality for different types of wallets.

```
protected Wallet(FullNodeProxy node, KeyStore keyStore, WalletOptions? walletOptions = null)
```

Parameters

node FullNodeProxy

Represents an abstract wallet class that provides common functionality for different types of wallets.

keyStore [KeyStore](#)

Represents an abstract wallet class that provides common functionality for different types of wallets.

walletOptions [WalletOptions](#)

Represents an abstract wallet class that provides common functionality for different types of wallets.

Properties

ArtificialCoinRecords

Gets the list of chia.dotnet.CoinRecord instances representing the artificial coin records associated with the wallet.

```
public List<CoinRecord> ArtificialCoinRecords { get; }
```

Property Value

[List](#) <CoinRecord>

Represents an abstract wallet class that provides common functionality for different types of wallets.

CoinRecords

Gets or sets the list of lists of chia.dotnet.CoinRecord instances representing the coin records associated with the wallet.

```
public List<List<CoinRecord>> CoinRecords { get; }
```

Property Value

[List](#) <[List](#) <CoinRecord>>

Represents an abstract wallet class that provides common functionality for different types of wallets.

KeyStore

Gets or sets the [KeyStore](#) instance used for managing keys.

```
public KeyStore KeyStore { get; init; }
```

Property Value

[KeyStore](#)

Represents an abstract wallet class that provides common functionality for different types of wallets.

Node

Gets or sets the `chia.dotnet.FullNodeProxy` instance used for interacting with the Chia full node.

```
public FullNodeProxy Node { get; init; }
```

Property Value

`FullNodeProxy`

Represents an abstract wallet class that provides common functionality for different types of wallets.

Options

Gets or sets the [WalletOptions](#) instance used for configuring wallet options.

```
public WalletOptions Options { get; init; }
```

Property Value

[WalletOptions](#)

Represents an abstract wallet class that provides common functionality for different types of wallets.

PuzzleCache

Gets the list of `T` instances representing the puzzle cache associated with the wallet.

```
public List<T> PuzzleCache { get; }
```

Property Value

[List](#) <T>

Represents an abstract wallet class that provides common functionality for different types of wallets.

Methods

ClearUnconfirmedTransactions(CancellationToken)

Clears the unconfirmed transactions associated with the wallet.

```
public Task ClearUnconfirmedTransactions(Cancellation token = default)
```

Parameters

cancellationToken [CancellationToken](#)

Returns

[Task](#)

CoinRecordIndex(CoinRecord)

Gets the index of the given coin record in the puzzle cache.

```
public int CoinRecordIndex(CoinRecord coinRecord)
```

Parameters

coinRecord CoinRecord

The coin record to find the index of.

Returns

[int](#)

The index of the coin record in the puzzle cache.

CompleteSpend(SpendBundle, CancellationToken)

Completes the spend of the given spend bundle.

```
public Task CompleteSpend(SpendBundle spendBundle, Cancellation_token cancellation_token  
= default)
```

Parameters

spendBundle SpendBundle

cancellation_token [Cancellation_token](#)

Returns

[Task](#)

Exceptions

[Exception](#)

CreatePuzzle(KeyPair)

Creates a new instance of the program associated with the wallet using the given key pair.

```
public abstract T CreatePuzzle(KeyPair keyPair)
```

Parameters

keyPair [KeyPair](#)

The key pair to use for creating the program.

Returns

T

The created program instance.

CreateSpend()

Creates a new spend bundle.

```
public SpendBundle CreateSpend()
```

Returns

SpendBundle

SpendBundle

FetchCoinRecords(CancellationToken)

Fetches the coin records associated with the wallet from the Chia network.

```
public Task FetchCoinRecords(CancellationToken cancellationToken = default)
```

Parameters

cancellationToken [CancellationToken](#)

Returns

[Task](#)

An awaitable Task

FindUnusedIndices(int, List<int>, bool, CancellationToken)

Finds the unused indices for the wallet.

```
public Task<List<int>> FindUnusedIndices(int amount, List<int> used, bool presynced = false,
```



```
CancellationToken cancellationToken = default)
```

Parameters

amount [int](#)

used [List](#) <[int](#)>

presynced [bool](#)

cancellationToken [CancellationToken](#)

Returns

[Task](#) <[List](#) <[int](#)>>

The list of indices

Exceptions

[Exception](#)

GetBalance()

Gets the balance of the wallet.

```
public BigInteger GetBalance()
```

Returns

[BigInteger](#)

The balance

SelectCoinRecords(BigInteger, CoinSelection, int, bool)

Selects coin records for spending.

```
public List<CoinRecord> SelectCoinRecords(BigInteger amount, CoinSelection coinSelection,
```

```
int minimumCoinRecords = 0, bool required = true)
```

Parameters

amount [BigInteger](#)

coinSelection [CoinSelection](#)

minimumCoinRecords [int](#)

required [bool](#)

Returns

[List](#) <CoinRecord>

Exceptions

[Exception](#)

SignSpend(SpendBundle, byte[])

Signs the given spend bundle with the wallet's private key and returns the signed spend bundle.

```
public abstract SpendBundle SignSpend(SpendBundle spendBundle, byte[] aggSigMeExtraData)
```

Parameters

spendBundle SpendBundle

The spend bundle to sign.

aggSigMeExtraData [byte](#)[]

The extra data to include in the aggregated signature.

Returns

SpendBundle

The signed spend bundle.

Sync(WalletOptions?, CancellationToken)

Synchronizes the wallet with the Chia network, fetching new coin records and updating the puzzle cache.

```
public Task Sync(WalletOptions? overrideOptions = null, CancellationToken cancellationToken = default)
```

Parameters

overrideOptions [WalletOptions](#)

The wallet options to use for synchronization. If null, the default wallet options will be used.

cancellationToken [CancellationToken](#)

The cancellation token.

Returns

[Task](#)

A task representing the asynchronous synchronization operation.