

[SwiftData](#) / HistoryTransaction

## Protocol

# HistoryTransaction

iOS 18.0+ | iPadOS 18.0+ | Mac Catalyst 18.0+ | macOS 15.0+ | tvOS 18.0+ | visionOS 2.0+ | watchOS 11.0+ |  
Swift 5.9+

```
protocol HistoryTransaction : Hashable, Identifiable, Sendable
```

## Topics

### Associated Types

```
associatedtype TokenType : Comparable, Hashable, Identifiable, Sendable
```

Required

```
associatedtype TransactionIdentifier : Comparable, Hashable, Sendable
```

Required

### Instance Properties

```
var author: String?
```

Required

```
var changes: [HistoryChange]
```

Required

```
var storeIdentifier: String
```

Required

```
var timestamp: Date
```

Required

```
var token: Self.TokenType
```

Required

```
var transactionIdentifier: Self.TransactionIdentifier
```

Required

---

## Relationships

### Inherits From

Equatable  
Hashable  
Identifiable  
Sendable  
SendableMetatype

### Conforming Types

DefaultHistoryTransaction

---

## See Also

### History life cycle

```
enum HistoryChange
```

Values that describe data history transactions.

```
protocol HistoryDelete
```

An interface that enables a custom data store to delete items from the history of changes to its persisted models.

```
protocol HistoryInsert
```

```
protocol HistoryToken
```

```
protocol HistoryUpdate
```

```
struct HistoryTombstone
```

```
struct DefaultHistoryInsert
```

```
struct DefaultHistoryUpdate
```

```
struct DefaultHistoryDelete
```

```
struct DefaultHistoryToken
```

```
struct DefaultHistoryTransaction
```