

[Contacts](#) / CNChangeHistoryFetchRequest

Class

CNChangeHistoryFetchRequest

An object that specifies the criteria for fetching change history.

iOS 13.0+ | iPadOS 13.0+ | Mac Catalyst 13.1+ | macOS 10.15+ | visionOS 1.0+ | watchOS 6.0+

```
class CNChangeHistoryFetchRequest
```

Overview

The system always returns changes to contacts. The system coalesces changes to remove redundant adds, updates, and deletes.

Create and configure a fetch request, then call [enumeratorForChangeHistoryFetchRequest:error:](#) to process changes.

Topics

Configuring the fetch request

```
var additionalContactKeyDescriptors: [any CNKeyDescriptor]?
```

An array of contact property keys or key descriptors from contact objects to fetch in the returned contacts.

```
var excludedTransactionAuthors: [String]?
```

An array of strings that identify transaction authors to exclude from the fetch results.

```
var includeGroupChanges: Bool
```

A Boolean value that indicates whether the fetch should also return group changes.

```
var mutableObjects: Bool
```

A Boolean value that indicates whether the fetch should return mutable contacts and groups.

```
var shouldUnifyResults: Bool
```

A Boolean value that indicates whether the fetch should return contact changes as unified contacts.

```
var startingToken: Data?
```

An opaque token that indicates a point in history in the user's Contacts database.

Relationships

Inherits From

CNFetchRequest

Conforms To

CVarArg

CustomDebugStringConvertible

CustomStringConvertible

Equatable

Hashable

NSCoding

NSObjectProtocol

NSSecureCoding

See Also

Change history data

```
class CNChangeHistoryAddContactEvent
```

An object that represents a user adding a contact.

```
class CNChangeHistoryAddGroupEvent
```

An object that represents a user adding a group.

```
class CNChangeHistoryAddMemberToGroupEvent
```

An object that represents a user adding a contact to a group.

```
class CNChangeHistoryAddSubgroupToGroupEvent
```

An object that represents a user adding a subgroup to a group.

```
class CNChangeHistoryDeleteContactEvent
```

An object that represents a user deleting a contact.

```
class CNChangeHistoryDeleteGroupEvent
```

An object that represents a user deleting a group.

```
class CNChangeHistoryDropEverythingEvent
```

An object that indicates the delegate should drop all contacts and groups before handling change events.

```
class CNChangeHistoryEvent
```

An object that represents the user adding, updating, or deleting a contact or group.

```
class CNChangeHistoryRemoveMemberFromGroupEvent
```

An object that represents a user removing a contact from a group.

```
class CNChangeHistoryRemoveSubgroupFromGroupEvent
```

An object that represents a user removing a subgroup from a group.

```
class CNChangeHistoryUpdateContactEvent
```

An object that represents a user updating a contact.

```
class CNChangeHistoryUpdateGroupEvent
```

An object that represents an updated group event.

```
protocol CNChangeHistoryEventVisitor
```

An interface for receiving notice of changes to contacts and groups.