

---

# CalEvent Class Reference

[Cocoa](#) > [Apple Applications](#)



2009-03-04



Apple Inc.  
© 2009 Apple Inc.  
All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, mechanical, electronic, photocopying, recording, or otherwise, without prior written permission of Apple Inc., with the following exceptions: Any person is hereby authorized to store documentation on a single computer for personal use only and to print copies of documentation for personal use provided that the documentation contains Apple's copyright notice.

The Apple logo is a trademark of Apple Inc.

Use of the "keyboard" Apple logo (Option-Shift-K) for commercial purposes without the prior written consent of Apple may constitute trademark infringement and unfair competition in violation of federal and state laws.

No licenses, express or implied, are granted with respect to any of the technology described in this document. Apple retains all intellectual property rights associated with the technology described in this document. This document is intended to assist application developers to develop applications only for Apple-labeled computers.

Every effort has been made to ensure that the information in this document is accurate. Apple is not responsible for typographical errors.

Apple Inc.  
1 Infinite Loop  
Cupertino, CA 95014  
408-996-1010

Apple, the Apple logo, Cocoa, iCal, Mac, Mac OS, and Objective-C are trademarks of Apple Inc., registered in the United States and other countries.

Simultaneously published in the United States and Canada.

**Even though Apple has reviewed this document, APPLE MAKES NO WARRANTY OR REPRESENTATION, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS DOCUMENT, ITS QUALITY, ACCURACY, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. AS A RESULT, THIS DOCUMENT IS PROVIDED "AS IS," AND YOU, THE READER, ARE ASSUMING THE ENTIRE RISK AS TO ITS QUALITY AND ACCURACY.**

**IN NO EVENT WILL APPLE BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY**

**DEFECT OR INACCURACY IN THIS DOCUMENT, even if advised of the possibility of such damages.**

**THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, ORAL OR WRITTEN, EXPRESS OR IMPLIED. No Apple dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.**

**Some states do not allow the exclusion or limitation of implied warranties or liability for incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.**

# Contents

---

## **CalEvent Class Reference 5**

---

Overview	5
Tasks	6
Creating Events	6
Getting Properties	6
Properties	6
attendees	6
endDate	7
isAllDay	7
isDetached	7
location	7
occurrence	8
recurrenceRule	8
startDate	8
Class Methods	8
event	8

---

## **Document Revision History 11**

---

## **Index 13**

---



# CalEvent Class Reference

---

<b>Inherits from</b>	CalCalendarItem : NSObject
<b>Conforms to</b>	NSCopying (CalCalendarItem) NSObject (NSObject)
<b>Framework</b>	/System/Library/Frameworks/CalendarStore.framework
<b>Availability</b>	Available in Mac OS X v10.5 and later.
<b>Companion guide</b>	Calendar Store Programming Guide
<b>Declared in</b>	CalEvent.h
<b>Related sample code</b>	Reminders SimpleCalendar

## Overview

A `CalEvent` object represents an event added to a calendar in iCal.

Use the [event](#) (page 8) method to create a new event or use the `CalCalendarStore` `eventsWithPredicate:` method to fetch existing events. This method takes an `NSPredicate` object as the argument so you can build your own queries. Use the `CalCalendarStore` `eventPredicateWithStartDate:endDate:calendars:` method to create an `NSPredicate` object for common queries that you can pass to the `eventsWithPredicate:` method.

Use the properties in this class to get information about an event. For example, the `attendees` property is an array of `CalAttendee` objects representing the people who are invited to this event. The `attendees` property is read-only. Use the `startDate` and `endDate` properties to access the start and end date and time for an event.

If you retain event objects, you can observe the `CalEventsChangedNotification` notification to update event objects when they change. Event objects can be added, changed, or deleted locally and externally after you fetch them.

## Tasks

### Creating Events

- + [event](#) (page 8)  
Creates and returns a newly allocated `CalEvent` object.

### Getting Properties

- [isAllDay](#) (page 7) *property*  
YES if this is an all day event; otherwise, NO.
- [location](#) (page 7) *property*  
A description of the location of this event.
- [recurrenceRule](#) (page 8) *property*  
The recurrence rule of an event.
- [startDate](#) (page 8) *property*  
The start date and time for this event.
- [endDate](#) (page 7) *property*  
The end date and time for this event.
- [attendees](#) (page 6) *property*  
An array of invited guests or an empty array if there are no attendees. This property is read-only. (read-only)
- [isDetached](#) (page 7) *property*  
Returns whether or not an event is detached. This property is read-only. (read-only)
- [occurrence](#) (page 8) *property*  
The occurrence date of an event. This property is read-only. (read-only)

## Properties

For more about Objective-C properties, see “Properties” in *The Objective-C 2.0 Programming Language*.

### attendees

An array of invited guests or an empty array if there are no attendees. This property is read-only. (read-only)

```
@property(readonly) NSArray *attendees
```

#### Availability

Available in Mac OS X v10.5 and later.

#### Declared In

`CalEvent.h`

## endDate

The end date and time for this event.

```
@property(copy) NSDate *endDate
```

### Discussion

An error occurs if you attempt to save an event whose start date occurs after the end date.

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

CalEvent.h

## isAllDay

YES if this is an all day event; otherwise, NO.

```
@property BOOL isAllDay
```

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

CalEvent.h

## isDetached

Returns whether or not an event is detached. This property is read-only. (read-only)

```
@property(readonly) BOOL isDetached
```

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

CalEvent.h

## location

A description of the location of this event.

```
@property(copy) NSString *location
```

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

CalEvent.h

## occurrence

The occurrence date of an event. This property is read-only. (read-only)

```
@property(readonly) NSDate *occurrence
```

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

CalEvent.h

## recurrenceRule

The recurrence rule of an event.

```
@property(copy) CalRecurrenceRule *recurrenceRule
```

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

CalEvent.h

## startDate

The start date and time for this event.

```
@property(copy) NSDate *startDate
```

### Discussion

An error occurs if you attempt to save an event whose start date occurs after the end date.

### Availability

Available in Mac OS X v10.5 and later.

### Declared In

CalEvent.h

## Class Methods

### event

Creates and returns a newly allocated CalEvent object.

```
+ (id)event
```

### Discussion

Use the `saveEvent:span:error:` method to save a new event to the iCal database.



**Availability**

Available in Mac OS X v10.5 and later.

**See Also**

- `saveEvent:span:error:`

**Related Sample Code**

Reminders

**Declared In**

CalEvent.h



# Document Revision History

---

This table describes the changes to *CalEvent Class Reference*.

Date	Notes
2009-03-04	Minor updates throughout.
2007-07-08	New document that describes the class used to get properties about an event.

## REVISION HISTORY

### Document Revision History

# Index

---

## A

---

attendees [instance property 6](#)

## E

---

endDate [instance property 7](#)

event [class method 8](#)

## I

---

isAllDay [instance property 7](#)

isDetached [instance property 7](#)

## L

---

location [instance property 7](#)

## O

---

occurrence [instance property 8](#)

## R

---

recurrenceRule [instance property 8](#)

## S

---

startDate [instance property 8](#)