

[Foundation](#) / [NSUserNotificationCenter](#) **Deprecated**

Class

NSUserNotificationCenter **Deprecated**

An object that delivers notifications from apps to the user.

macOS 10.8–11.0 **Deprecated**

```
class NSUserNotificationCenter
```

Deprecated

Use the [User Notifications](#) framework instead.

Overview

When a user notification's delivery date has been reached, or it's manually delivered, the notification center may display the notification to the user. The user notification center reserves the right to decide if a delivered user notification is presented to the user. For example, it may suppress the notification if the application is already frontmost (the delegate can override this action). The application can check the result of this decision by examining the [isPresented](#) property of a delivered user notification.

[NSUserNotification](#) instances the [NSUserNotificationCenter](#) are tracking will be in one of two states: scheduled or delivered. A scheduled user notification has a [deliveryDate](#). On that delivery date, the notification will move from being scheduled to being delivered. Note that the user notification may be displayed later than the delivery date depending on many factors.

A delivered user notification has an [actualDeliveryDate](#). That's the date when it moved from being scheduled to delivered, or when it was manually delivered using the [deliver\(_:\)](#) method.

The application and the user notification center are both ultimately subject to the user's preferences. If the user decides to hide all alerts from your application, the [presented](#) property

will still behave as above, but the user won't see any animation or hear any sound.

The [NSUserNotificationCenterDelegate](#) provides more information about the delivered user notification and allows forcing the display of a user notification even if the application is frontmost.

Note

If the user wakes more than 15 minutes after a scheduled notification is scheduled to fire, it's discarded. If the notification repeats with an interval less than 15 minutes, then it expires in 1 minute. Expired notifications are just discarded, unless they repeat, in which case, they stay in the scheduled list and just fire again later.

Important

Many of the `NSUserNotificationCenter` class's methods involve talking to a server process, so calling them repeatedly can have a negative effect on performance.

Threading Information

The `NSUserNotificationCenter` class and the [NSUserNotification](#) class are both thread safe.

Topics

Creating the Default User Notification Center

```
class var `default`: NSUserNotificationCenter  
Returns the default user notification center.
```

Managing the Scheduled Notification Queue

```
func scheduleNotification(NSUserNotification)  
Schedules the specified user notification.
```

```
var scheduledNotifications: [NSUserNotification]  
Specifies an array of scheduled user notifications that have not yet been delivered.
```

```
func removeScheduledNotification(NSUserNotification)
```

Removes the specified user notification for the scheduled notifications.

Managing the Delivered Notifications

~~func deliver(NSUserNotification)~~

Deliver the specified user notification.

~~var deliveredNotifications: [NSUserNotification]~~

An array of all user notifications delivered to the notification center.

~~func removeDeliveredNotification(NSUserNotification)~~

Remove a delivered user notification from the user notification center.

~~func removeAllDeliveredNotifications()~~

Remove all delivered user notifications from the user notification center.

Getting and Setting the Delegate

~~var delegate: (any NSUserNotificationCenterDelegate)?~~

Specifies the notification center delegate.

Relationships

Inherits From

NSObject

Conforms To

CVarArg

CustomDebugStringConvertible

CustomStringConvertible

Equatable

Hashable

NSObjectProtocol

See Also

User Notifications

~~class~~ ~~NSUserNotification~~

A notification that can be scheduled for display in the notification center.

Deprecated

~~class~~ ~~NSUserNotificationAction~~

An action that the user can take in response to receiving a notification.

Deprecated

protocol ~~NSUserNotificationCenterDelegate~~

An interface that enables customizing the behavior of the default notification center.