
UIDocumentInteractionControllerDelegate Protocol Reference

Data Management: File Management





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

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UIDocumentInteractionControllerDelegate Protocol Reference

Conforms to	NSObject
Framework	/System/Library/Frameworks/UIKit.framework
Availability	Available in iOS 3.2 and later.
Declared in	UIDocumentInteractionController.h

Overview

The `UIDocumentInteractionControllerDelegate` protocol includes methods that you use to respond to events in a document interaction controller object. You can use this protocol to determine when document previews are displayed and when a document is about to be opened by another application. You also use it to support commands (such as the copy command) that affect documents.

If you use a document interaction controller to display a document preview, your delegate must implement the `documentInteractionControllerViewControllerForPreview:` (page 10) method. All other methods of the protocol are optional.

For more information about using a document interaction controller object, see *UIDocumentInteractionController Class Reference*.

Tasks

Configuring the Parent View Controller

- `documentInteractionControllerViewControllerForPreview:` (page 10)
Asks the delegate for the view controller to use when presenting the document preview.
- `documentInteractionControllerViewForPreview:` (page 11)
Asks the delegate for the view to use as the starting point for animating the display of the document preview.
- `documentInteractionControllerRectForPreview:` (page 10)
Asks the delegate for the rectangle to use as the starting point for animating the display of the document preview.

Presenting the User Interface

- [documentInteractionControllerWillBeginPreview:](#) (page 11)
Tells the delegate that the interaction controller is about to display a preview for its document.
- [documentInteractionControllerDidEndPreview:](#) (page 9)
Tells the delegate that the interaction controller dismissed its document preview.
- [documentInteractionControllerWillPresentOptionsMenu:](#) (page 12)
Tells the delegate that the interaction controller is about to display an options menu.
- [documentInteractionControllerDidDismissOptionsMenu:](#) (page 9)
Tells the delegate that the interaction controller dismissed its options menu.
- [documentInteractionControllerWillPresentOpenInMenu:](#) (page 12)
Tells the delegate that the interaction controller is about to display an Open In menu.
- [documentInteractionControllerDidDismissOpenInMenu:](#) (page 8)
Tells the delegate that the interaction controller dismissed its Open In menu.

Opening Files

- [documentInteractionController:willBeginSendingToApplication:](#) (page 8)
Tells the delegate that the document is about to be opened by the specified application
- [documentInteractionController:didEndSendingToApplication:](#) (page 7)
Tells the delegate that the document was handed off to the specified application

Managing Actions

- [documentInteractionController:canPerformAction:](#) (page 6)
Asks the delegate whether the specified action can be performed on the target document.
- [documentInteractionController:performAction:](#) (page 7)
Tells the delegate to perform the specified action on the target document.

Instance Methods

documentInteractionController:canPerformAction:

Asks the delegate whether the specified action can be performed on the target document.

- (BOOL)documentInteractionController:(UIDocumentInteractionController *)*controller* canPerformAction:(SEL)*action*

Parameters

controller

The document interaction controller managing the target document.

action

A selector for the action method in question.

Return Value

YES if the specified action is supported on the target document or NO if it is not. If you do not implement this method, the return value is assumed to be NO.

Discussion

When building the options menu, the document interaction controller calls this method to find out if your application is able to perform the indicated action. (If you implement this method, you must also implement the `documentInteractionController:performAction:` (page 7) method for the given action.)

Currently only the `copy:` action is supported. If your application supports copying the document contents, you should return YES and use the `documentInteractionController:performAction:` to perform the copy operation.

Availability

Available in iOS 3.2 and later.

Declared In

UIDocumentInteractionController.h

documentInteractionController:didEndSendingToApplication:

Tells the delegate that the document was handed off to the specified application

```
- (void)documentInteractionController:(UIDocumentInteractionController *)controller
    didEndSendingToApplication:(NSString *)application
```

Parameters

controller

The document interaction controller whose document is about to be opened.

application

The bundle identifier of the application that is about to open the document. This value corresponds to the value in the `CFBundleIdentifier` key of the application's `Info.plist` file.

Discussion

This method is called after the document information has been saved for the specified application.

Availability

Available in iOS 3.2 and later.

Declared In

UIDocumentInteractionController.h

documentInteractionController:performAction:

Tells the delegate to perform the specified action on the target document.

```
- (BOOL)documentInteractionController:(UIDocumentInteractionController *)controller
    performAction:(SEL)action
```

Parameters

controller

The document interaction controller managing the target document.

action

A selector representing the action to perform. You can invoke this selector directly on the object responsible for performing the action or use it to call the appropriate method.

Return Value

YES if the action was performed successfully or NO if it was not.

Discussion

Currently only the `copy:` action is supported. Your implementation of this method should write the contents of the document to the pasteboard when the action is performed.

Availability

Available in iOS 3.2 and later.

Declared In

UIDocumentInteractionController.h

documentInteractionController:willBeginSendingToApplication:

Tells the delegate that the document is about to be opened by the specified application

```
- (void)documentInteractionController:(UIDocumentInteractionController *)controller
    willBeginSendingToApplication:(NSString *)application
```

Parameters

controller

The document interaction controller whose document is about to be opened.

application

The bundle identifier of the application that is about to open the document. This value corresponds to the value in the `CFBundleIdentifier` key of the application's `Info.plist` file.

Discussion

This method is called when the user chooses to open a document, which could occur from within a document preview. When a document is passed to another application, the contents of the document interaction controller's `annotation` property are passed with it. You can use this method to configure the contents of that property or prepare your own application for handing off the document.

Availability

Available in iOS 3.2 and later.

Declared In

UIDocumentInteractionController.h

documentInteractionControllerDidDismissOpenInMenu:

Tells the delegate that the interaction controller dismissed its Open In menu.

```
- (void)documentInteractionControllerDidDismissOpenInMenu:(UIDocumentInteractionController
 *)controller
```


Parameters*controller*

The document interaction controller that dismissed its menu.

Discussion

You can use this method to remove any additional views or content you placed underneath the Open In menu in your [documentInteractionControllerWillPresentOpenInMenu:](#) (page 12) method.

Availability

Available in iOS 3.2 and later.

Declared In

UIDocumentInteractionController.h

documentInteractionControllerDidDismissOptionsMenu:

Tells the delegate that the interaction controller dismissed its options menu.

-

```
(void)documentInteractionControllerDidDismissOptionsMenu:(UIDocumentInteractionController *)controller
```

Parameters*controller*

The document interaction controller that dismissed its options menu.

Discussion

You can use this method to remove any additional views or content you placed underneath the options menu in your [documentInteractionControllerWillPresentOptionsMenu:](#) (page 12) method.

Availability

Available in iOS 3.2 and later.

Declared In

UIDocumentInteractionController.h

documentInteractionControllerDidEndPreview:

Tells the delegate that the interaction controller dismissed its document preview.

-

```
(void)documentInteractionControllerDidEndPreview:(UIDocumentInteractionController *)controller
```

Parameters*controller*

The document interaction controller that dismissed its document preview.

Discussion

This method is called after the view containing the document preview has been removed from the application's key window. You can use this notification to remove any interface elements you set up behind the preview elements.

Availability

Available in iOS 3.2 and later.

Declared In

UIDocumentInteractionController.h

documentInteractionControllerRectForPreview:

Asks the delegate for the rectangle to use as the starting point for animating the display of the document preview.

```
- (CGRect)documentInteractionControllerRectForPreview:(UIDocumentInteractionController *)controller
```

Parameters*controller*

The document interaction controller requesting the starting rectangle.

Return Value

A rectangle in the coordinate system of the view returned by the [documentInteractionControllerViewForPreview:](#) (page 11) method.

Discussion

If you do not implement the `documentInteractionControllerViewForPreview:` method, or if you do implement it but return a `nil` value, this method is not called. If you do not implement this method, the starting rectangle is assumed to be the bounds of the view returned by the [documentInteractionControllerViewForPreview:](#) (page 11) method.

Availability

Available in iOS 3.2 and later.

Declared In

UIDocumentInteractionController.h

documentInteractionControllerViewControllerForPreview:

Asks the delegate for the view controller to use when presenting the document preview.

```
- (UIViewController *)documentInteractionControllerViewControllerForPreview:(UIDocumentInteractionController *)controller
```

Parameters*controller*

The document interaction controller requesting the parent view controller.

Return Value

The view controller to use when presenting the document preview. The return value must not be `nil`.

Discussion

Although technically optional, this method is required if your application attempts to display a preview for a document. The view controller returned by this method is used as the parent for the document preview.

If you return a navigation controller from this method, the document interaction controller is pushed onto the navigation stack using the standard navigation controller animations. If you return any other type of view controller, the document interaction controller is displayed modally, in which case, the view controller you return must be capable of presenting a modal view controller.

Availability

Available in iOS 3.2 and later.

Declared In

UIDocumentInteractionController.h

documentInteractionControllerViewForPreview:

Asks the delegate for the view to use as the starting point for animating the display of the document preview.

```
- (UIView
  *)documentInteractionControllerViewForPreview:(UIDocumentInteractionController
  *)controller
```

Parameters

controller

The document interaction controller requesting the starting view.

Return Value

The view to use as the starting point for the animation or `nil` if you want the document preview to fade into place.

Discussion

By default, the starting rectangle for the animation is set to the bounds of the returned view. To specify a different starting rectangle, you must also override the [documentInteractionControllerRectForPreview:](#) (page 10) method.

Availability

Available in iOS 3.2 and later.

Declared In

UIDocumentInteractionController.h

documentInteractionControllerWillBeginPreview:

Tells the delegate that the interaction controller is about to display a preview for its document.

```
-
  (void)documentInteractionControllerWillBeginPreview:(UIDocumentInteractionController
  *)controller
```

Parameters

controller

The document interaction controller that is about to preview its document.

Discussion

This method is called shortly before the view containing the document preview is presented modally. You can use this notification to set up any additional interface elements behind the preview elements.

Availability

Available in iOS 3.2 and later.

Declared In

UIDocumentInteractionController.h

documentInteractionControllerWillPresentOpenInMenu:

Tells the delegate that the interaction controller is about to display an Open In menu.

```
-
    (void)documentInteractionControllerWillPresentOpenInMenu:(UIDocumentInteractionController
    *)controller
```

Parameters

controller

The document interaction controller that is about to display a menu.

Discussion

The Open In menu is used to select an application for opening the current file. You can use this method to update your user interface in response to displaying the menu.

Availability

Available in iOS 3.2 and later.

Declared In

UIDocumentInteractionController.h

documentInteractionControllerWillPresentOptionsMenu:

Tells the delegate that the interaction controller is about to display an options menu.

```
-
    (void)documentInteractionControllerWillPresentOptionsMenu:(UIDocumentInteractionController
    *)controller
```

Parameters

controller

The document interaction controller that is about to display an options menu.

Discussion

The Open In menu is used to present the user with options for previewing the document, opening it in an application, or copying its contents. You can use this method to update your user interface in response to displaying the menu.

Availability

Available in iOS 3.2 and later.

Declared In

UIDocumentInteractionController.h

Document Revision History

This table describes the changes to *UIDocumentInteractionControllerDelegate Protocol Reference*.

Date	Notes
2010-05-14	Added information about using a document interaction controller in conjunction with a navigation controller.
2010-02-25	New document that describes the methods for working with a document interaction controller.

REVISION HISTORY

Document Revision History