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# SFCertificateTrustPanel Class Reference

[Security](#) > [Cocoa](#)



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# SFCertificateTrustPanel Class Reference

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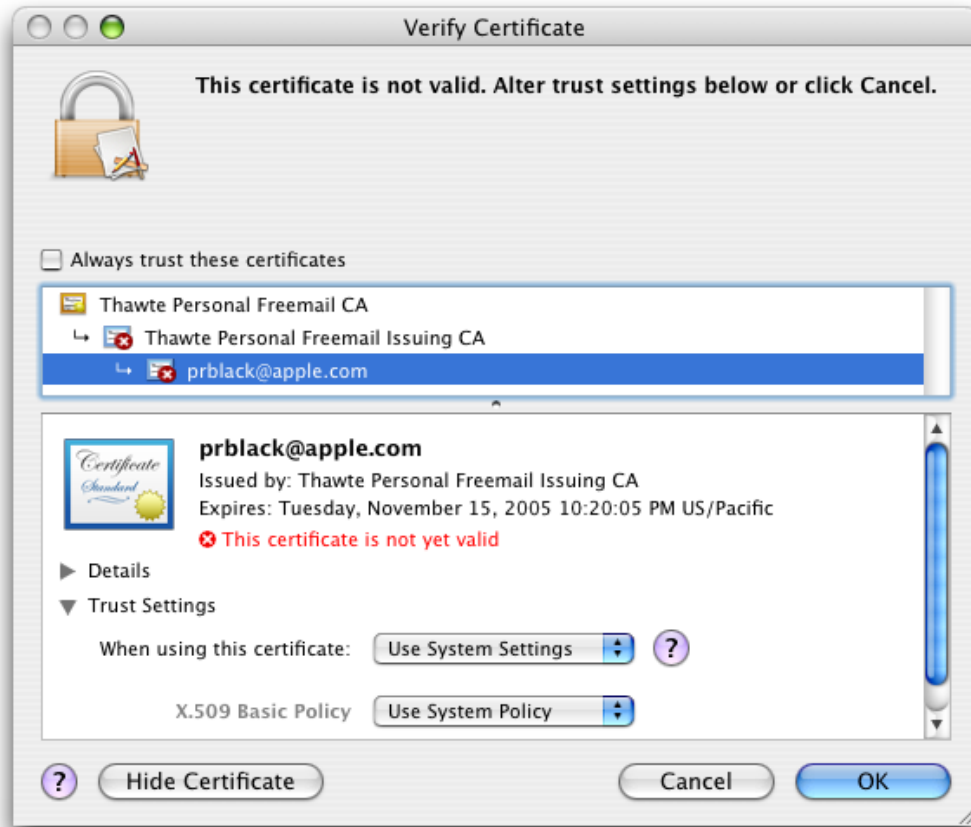
<b>Inherits from</b>	SFCertificatePanel : NSPanel : NSWindow : NSResponder : NSObject
<b>Conforms to</b>	NSUserInterfaceValidations (NSWindow) NSAnimatablePropertyContainer (NSWindow) NSCoding (NSResponder) NSObject (NSObject)
<b>Framework</b>	/System/Library/Frameworks/SecurityInterface.framework
<b>Availability</b>	Available in Mac OS X v10.3 and later
<b>Companion guide</b>	Certificate, Key, and Trust Services Programming Guide
<b>Declared in</b>	SFCertificateTrustPanel.h

## Overview

The `SFCertificateTrustPanel` class opens a panel or sheet that lets the user edit the trust settings in any of the certificates in a certificate chain.

The following figure shows an example of a certificate trust panel.

Figure 1 Certificate trust panel



You can use this class to enable a user to make trust decisions when one or more certificates required for an operation are invalid or cannot be verified.

To display a certificate in a panel or sheet without editable trust settings, use the `SFCertificatePanel` class. To display certificates in a custom view, use the `SFCertificateView` class.

## Tasks

### Returning a Shared Certificate Trust Panel Object

+ `sharedCertificateTrustPanel` (page 9)

Returns a shared certificate trust panel object. If the object has not already been created, this method allocates and initializes the object first.



## Displaying a Sheet or Panel

- [beginSheetForWindow:modalDelegate:didEndSelector:contextInfo:trust:message:](#) (page 9)
  - Displays a modal sheet that shows the results of a certificate trust evaluation and that allows the user to edit trust settings.
- [runModalForTrust:message:](#) (page 11)
  - Displays a modal panel that shows the results of a certificate trust evaluation and that allows the user to edit trust settings.

## Class Methods

### sharedCertificateTrustPanel

Returns a shared certificate trust panel object. If the object has not already been created, this method allocates and initializes the object first.

```
+ (SFCertificateTrustPanel *)sharedCertificateTrustPanel
```

#### Discussion

Use this method if your application displays a single certificate trust panel or sheet at a time. If your application can display multiple certificate trust panels or sheets at once, you must allocate separate object instances (using the `alloc` class method inherited from `NSObject`) and initialize (using the `init` instance method, also inherited from `NSObject`) instead of using this class method.

#### Availability

Available in Mac OS X v10.3 and later.

#### See Also

`+alloc(NSObject)`

`-init(NSObject)`

#### Declared In

`SFCertificateTrustPanel.h`

## Instance Methods

### beginSheetForWindow:modalDelegate:didEndSelector:contextInfo:trust:message:

Displays a modal sheet that shows the results of a certificate trust evaluation and that allows the user to edit trust settings.

```
- (void)beginSheetForWindow:(NSWindow *)docWindow modalDelegate:(id)delegate
    didEndSelector:(SEL)didEndSelector contextInfo:(void *)contextInfo
    trust:(SecTrustRef)trust message:(NSString *)message
```

**Parameters***docWindow*

The parent window to which the sheet is attached.

*delegate*

The delegate object in which the method specified in the `didEndSelector` parameter is implemented.

*didEndSelector*

A method selector for a delegate method called when the sheet has been dismissed. Implementation of this delegate method is optional.

*contextInfo*

A pointer to data that is passed to the delegate method. You can use this data pointer for any purpose you wish.

*trust*

A trust management object. Use the `SecTrustCreateWithCertificates` function (in `Security/SecTrust.h`) to create the trust management object.

*message*

A message string to display in the sheet.

**Discussion**

The delegate method has the following signature:

```
-(void)createPanelDidEnd:(NSWindow *)sheet
    returnCode:(int)returnCode
    contextInfo:(void *)contextInfo
```

The parameters for the delegate method are:

*sheet*

The window to which the sheet was attached.

*returnCode*

The result code indicating which button the user clicked: either `NSFileHandlingPanelOKButton` or `NSFileHandlingPanelCancelButton`.

*contextInfo*

Client-defined contextual data that is passed in the `contextInfo` parameter of the `beginSheetForDirectory:... method`.

The delegate method may dismiss the keychain settings sheet itself; if it does not, the sheet is dismissed on return from the `beginSheetForDirectory:... method`.

**Availability**

Available in Mac OS X v10.3 and later.

**See Also**

`SecTrustCreateWithCertificates` (`Security/SecTrust.h`)

`SecTrustGetUserTrust` (`Security/SecTrust.h`)

`SecTrustGetResult`

- [runModalForTrust:message:](#) (page 11)

**Declared In**

`SFCertificateTrustPanel.h`

## runModalForTrust:message:

Displays a modal panel that shows the results of a certificate trust evaluation and that allows the user to edit trust settings.

```
- (NSInteger)runModalForTrust:(SecTrustRef)trust message:(NSString *)message
```

### Parameters

*trust*

A trust management object. Use the `SecTrustCreateWithCertificates` function (in `Security/SecTrust.h`) to create the trust management object.

*message*

A message string to display in the panel.

### Discussion

This method returns `NSOKButton` if the default button is clicked, or `NSCancelButton` if the alternate button is clicked.

The user can use this panel to edit trust decisions for the specified certificate or for any of the certificates in the certificate chain. The trust settings are saved when the user clicks the default button. Call `SecTrustGetUserTrust` to obtain the user's trust settings.

Note that changing the user trust settings does not affect the results of a trust evaluation. Therefore, the trust evaluation shown in the panel (such as "This certificate is not yet valid") does not change, nor does the result of a call to `SecTrustGetResult`. It is up to your application to determine how to handle the user's trust decision.

### Availability

Available in Mac OS X v10.3 and later.

### See Also

`SecTrustCreateWithCertificates` (`Security/SecTrust.h`)

`SecTrustGetUserTrust` (`Security/SecTrust.h`)

`SecTrustGetResult` (`Security/SecTrust.h`)

- [beginSheetForWindow:modalDelegate:didEndSelector:contextInfo:trust:message:](#) (page 9)

### Declared In

`SFCertificateTrustPanel.h`



# Document Revision History

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

Date	Notes
2006-05-23	First publication of this content as a separate document.

**REVISION HISTORY**

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