SFCertificateView Class Reference

Security > Cocoa



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SFCertificateView Class Reference

Inherits from NSView: NSResponder: NSObject

Conforms to NSAnimatablePropertyContainer (NSView)

NSCoding (NSResponder) NSObject (NSObject)

Framework /System/Library/Frameworks/SecurityInterface.framework

Availability Available in Mac OS X v10.3 and later

Companion guide Certificate, Key, and Trust Services Programming Guide

Declared in SFCertificateView.h

Overview

The SFCertificateView class displays the contents of a certificate. It includes options to display certificate details, display trust settings, and allow users to edit a certificate's trust settings.

The following figure shows a certificate view that includes editable trust settings and certificate details.

Figure 1 Certificate view



Tasks

Specifying the Certificate to Display

- setCertificate: (page 11)

Specifies the certificate that's displayed in the view.

Customizing the Appearance and Behavior of the View

```
- setDisplayDetails: (page 11)
```

Specifies whether the user can see the certificate details.

- setDisplayTrust: (page 12)

Specifies whether the user can see the certificate's trust settings.

- setEditableTrust: (page 12)

Specifies whether the user can edit the certificate's trust settings.

- setPolicies: (page 13)

Specifies the policies to use when evaluating this certificate's status.

Getting Information About the View

- certificate (page 9)

Returns the certificate currently displayed in the view.

detailsDisplayed (page 9)

Indicates if the view currently shows the certificate's details.

- isTrustDisplayed (page 10)

Indicates if the view currently shows the certificate's trust settings.

- isEditable (page 10)

Indicates if the view allows the user to edit the certificate's trust.

- policies (page 10)

Returns an array of policies used to evaluate the status of the displayed certificate.

Saving User Trust Settings

saveTrustSettings (page 11)

Saves the user's current trust settings for the displayed certificate.

Instance Methods

certificate

Returns the certificate currently displayed in the view.

- (SecCertificateRef)certificate

Availability

Available in Mac OS X v10.3 and later.

See Also

```
- setCertificate: (page 11)
```

Declared In

SFCertificateView.h

details Displayed

Indicates if the view currently shows the certificate's details.

- (BOOL)detailsDisplayed

Availability

Available in Mac OS X v10.4 and later

See Also

```
- setDisplayDetails: (page 11)
```

Instance Methods 2006-05-23 | © 2006 Apple Computer, Inc. All Rights Reserved.

Declared In

SFCertificateView.h

isEditable

Indicates if the view allows the user to edit the certificate's trust.

- (BOOL)isEditable

Availability

Available in Mac OS X v10.3 and later.

See Also

```
- setEditableTrust: (page 12)
```

Declared In

SFCertificateView.h

isTrustDisplayed

Indicates if the view currently shows the certificate's trust settings.

- (BOOL)isTrustDisplayed

Availability

Available in Mac OS X v10.3 and later.

See Also

```
- setDisplayTrust: (page 12)
```

Declared In

SFCertificateView.h

policies

Returns an array of policies used to evaluate the status of the displayed certificate.

```
- (NSArray *)policies
```

Discussion

This method returns an autoreleased NSArray containing one or more instances of SecPolicyRef. The array always contains at least one item (the Apple X.509 Basic policy, if you have never called the setPolicies: method).

Availability

Available in Mac OS X v10.4 and later

See Also

```
- setPolicies: (page 13)
```

Declared In

SFCertificateView.h

saveTrustSettings

Saves the user's current trust settings for the displayed certificate.

(void)saveTrustSettings

Discussion

If trust settings are not editable, this method effectively does nothing. You can use SecTrustGetUserTrust to subsequently retrieve the trust settings.

Availability

Available in Mac OS X v10.3 and later.

See Also

```
- setEditableTrust: (page 12)
```

Declared In

SFCertificateView.h

setCertificate:

Specifies the certificate that's displayed in the view.

- (void)setCertificate:(SecCertificateRef)certificate

Parameters

certificate

The new certificate for the view.

Availability

Available in Mac OS X v10.3 and later.

See Also

- certificate (page 9)

Declared In

SFCertificateView.h

setDisplayDetails:

Specifies whether the user can see the certificate details.

- (void)setDisplayDetails:(BOOL)display

Parameters

display

Pass YES to display the certificate details, or NO to hide them.

Discussion

For behavioral compatibility with Mac OS X v10.3, certificate details are displayed by default. To hide the details of a certificate, you must explicitly set the display value to NO.

Availability

Available in Mac OS X v10.4 and later

Instance Methods 11

See Also

- detailsDisplayed (page 9)

Declared In

SFCertificateView.h

setDisplayTrust:

Specifies whether the user can see the certificate's trust settings.

- (void)setDisplayTrust:(BOOL)display

Parameters

display

Pass YES to display the trust settings, or NO to hide them.

Discussion

Certificate trust settings are not displayed by default. To show the certificate's trust settings, you must explicitly set the display value to YES. with either this method or the setEditableTrust method.

Availability

Available in Mac OS X v10.3 and later.

See Also

- setEditableTrust: (page 12)isTrustDisplayed (page 10)
- **Declared In**

SFCertificateView.h

setEditableTrust:

Specifies whether the user can edit the certificate's trust settings.

```
- (void)setEditableTrust:(BOOL)editable
```

Parameters

editable

Pass YES if the trust settings should be editable.

Discussion

For behavioral compatibility with Mac OS X v10.3, this method causes the certificate trust settings to be displayed if they are not currently visible (that is, if setDisplayTrust: is set to NO).

Availability

Available in Mac OS X v10.3 and later.

See Also

- setDisplayTrust: (page 12)
- isEditable (page 10)

Declared In

SFCertificateView.h

setPolicies:

Specifies the policies to use when evaluating this certificate's status.

- (void)setPolicies:(id)policies

Parameters

policies

The policy or policies to use. You can pass either a SecPolicyRef object or an NSArray (containing one or more objects of type SecPolicyRef) in this parameter. If policies is set to nil, the Apple X.509 Basic Policy is used. See "AppleX509TP Trust Policies" for a list of policies and object identifiers provided by the AppleX509TP module.

Discussion

Applications typically display a certificate view in the context of a specific use, such as SSL or S/MIME. You should set only the policy references that apply to your intended use.

Availability

Available in Mac OS X v10.4 and later.

See Also

- policies (page 10)

Declared In

SFCertificateView.h

Instance Methods

SFCertificateView Class Reference

Document Revision History

This table describes the changes to SFCertificateView Class Reference.

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

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