# IMKStateSetting Protocol Reference

Cocoa > Internationalization



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## Contents

## IMKStateSetting Protocol Reference 5

Overview 5 Tasks 5 Activating and Deactivating the Server 5 Showing a Preferences Window 5 Getting the Supported Events 5 Getting the Mode Dictionary 6 Getting and Setting Values 6 Instance Methods 6 activateServer: 6 deactivateServer: 6 modes: 7 recognizedEvents: 7 setValue:forTag:client: 8 showPreferences: 8 valueForTag:client: 8

Document Revision History 11

Index 13

CONTENTS

# **IMKStateSetting Protocol Reference**

Adopted by	IMKInputController
Framework Availability	System/Library/Frameworks/InputMethodKit.framework Available in Mac OS X v10.5 and later.
Declared in	IMKInputController.h

## Overview

The IMKStateSetting protocol defines methods for setting or accessing values that indicate the state of an input method.

## Tasks

## Activating and Deactivating the Server

- activateServer: (page 6)
  Activates the input method server.
- deactivateServer: (page 6)
  Deactivates the input method server.

## Showing a Preferences Window

showPreferences: (page 8)
 Displays a preferences window.

## **Getting the Supported Events**

recognizedEvents: (page 7)
 Returns an unsigned integer that contains a union of event masks

## **Getting the Mode Dictionary**

- modes: (page 7)
  - Returns the modes dictionary associated with the input method.

## **Getting and Setting Values**

- valueForTag:client: (page 8)
  Returns a value object whose key is the provided tag.
- setValue:forTag:client: (page 8)
  Set the value for the provided key.

## **Instance Methods**

### activateServer:

Activates the input method server.

```
- (void)activateServer:(id)sender
```

#### Parameters

sender

The object sending the activation message.

**Availability** Available in Mac OS X v10.5 and later.

#### See Also - deactivateServer: (page 6)

**Declared In** IMKInputController.h

## deactivateServer:

Deactivates the input method server.

- (void)deactivateServer:(id)sender

#### Parameters

sender

6

The object sending the deactivation message.

#### **Availability** Available in Mac OS X v10.5 and later.

See Also - activateServer: (page 6) Declared In IMKInputController.h

## modes:

Returns the modes dictionary associated with the input method.

- (NSDictionary\*)modes:(id)sender

#### Parameters

sender

The client object requesting the modes dictionary.

#### **Return Value**

The modes dictionary associated with the input method. The dictionary should be an autoreleased object.

#### Discussion

Typically a client object calls this method to to build the text input menu. By calling the input method rather than reading the modes from the Info.plist file, the input method can dynamically modify the modes supported.

#### Availability

Available in Mac OS X v10.5 and later.

Declared In IMKInputController.h

### recognizedEvents:

Returns an unsigned integer that contains a union of event masks

```
- (NSUInteger)recognizedEvents:(id)sender
```

#### Parameters

sender

The client object requesting the supported events.

#### **Return Value**

An unsigned integer that contains a union of event masks (See the NSEvent.h header file.

#### Discussion

A client calls this method to check whether an input method supports an event. The default implementation returns NSKeyDownMask. If your input method handles only key down events, the Input Method Kit provides the default mouse handling. The default mouse-down handling behavior is as follows: If there is an active composition area and the user clicks in the text but outside of the composition area, the Input Method Kit sends your input method a commitComposition: message. This happens only for input methods that return only the default value—NSKeyDownMask.

#### Availability

Available in Mac OS X v10.5 and later.

Declared In IMKInputController.h

### setValue:forTag:client:

Set the value for the provided key.

- (void)setValue:(id)value forTag:(long)tag client:(id)sender

#### Parameters

value

The value, specified as the appropriate object (such as NSNumber), to set.

tag

The key whose value you want to set.

sender

The client setting the value.

## Availability

Available in Mac OS X v10.5 and later.

#### See Also

- valueForTag:client: (page 8)

#### Declared In

IMKInputController.h

### showPreferences:

Displays a preferences window.

- (void)showPreferences:(id)sender

#### Parameters

sender

The object sending the message to show the preference window.

#### Discussion

This method looks for a nib file that contains a window controller class and a preferences utility. If found, it displays the window. To use this method you must create a menu item in your input method menu whose action is showPreferences:. When a user selects that item, the Input Method Kit invokes your showPreferences: method. The default implementation looks for a nib file named preferences.nib. If found, it allocates a window controller class loads the nib file. You can provide a custom window controller class by naming the class in your input method info.plist file, providing a key-value pair. The key must be InputMethodServerPreferencesWindowControllerClass and the associated value must be the name of your custom class.

#### Availability

8

Available in Mac OS X v10.5 and later.

Declared In

IMKInputController.h

## valueForTag:client:

Returns a value object whose key is the provided tag.

- (id)valueForTag:(long)tag client:(id)sender

#### Parameters

tag

The key whose value you want to retrieve.

sender

The client requesting the value.

**Return Value** 

The value object. The returned object should be autoreleased.

**Availability** Available in Mac OS X v10.5 and later.

See Also

- setValue:forTag:client: (page 8)

Declared In

IMKInputController.h

IMKStateSetting Protocol Reference

# **Document Revision History**

This table describes the changes to IMKStateSetting Protocol Reference.

Date	Notes
2007-06-05	New document that describes the protocol used to set or access state values for an input method client session.

#### **REVISION HISTORY**

Document Revision History

# Index

## А

activateServer: protocol instance method 6

\_\_\_\_

## D

deactivateServer: protocol instance method 6

## Μ

modes: protocol instance method 7

## R

recognizedEvents: protocol instance method 7

## S

## V

valueForTag:client: protocol instance method 8