Address Book Actions Reference

Carbon > Apple Applications

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Address Book Actions Reference

Framework:	AddressBook/ABActionsC.h
Companion guide	Address Book Programming Guide for Mac OS X
Declared in	ABActionsC.h

Overview

Note: This document was previously titled *ABActions Reference for C*.

The Address Book action callbacks allow you to populate the rollover menus of the Address Book application with custom items. You do this by writing an Address Book action plug-in that implements a function named `ABActionRegisterCallbacks`. This function registers a set of callback functions that are invoked by Address Book. The plug-in's CFBundle must also implement the callback functions.

This is an example implementation of the ABActionRegisterCallbacks function:

```
ABActionCallbacks* ABActionRegisterCallbacks(void)
{
    ABActionCallbacks *callbacks;
    callbacks = malloc(sizeof(ABActionCallbacks));
    if (callbacks == NULL)
        return NULL;
    callbacks->version = 0;
    callbacks->property = actionProperty;
    callbacks->title = actionTitle;
    callbacks->enabled = actionEnabled;
    callbacks->selected = actionSelected;
    return callbacks;
}
```

Each action plug-in can implement only one action. Actions can only apply to items with labels.

Use Xcode to create Address Book action plug-ins. Place action plug-ins in `~/Library/Address Book Plug-Ins` or `/Library/Address Book Plug-Ins`, depending on the scope you want for the action.

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Callbacks

ABActionCopyTitleCallback

Return the title of the menu item for the action. If the property returned by `ABActionGetPropertyCallback` (page 6) is a multi-value property, *identifier* contains the unique identifier of the value selected.

```
typedef CFStringRef (*ABActionCopyTitleCallback) (
   ABPersonRef person,
   CFString CFStringRef identifier
);
```

You may implement the function like this:

```
CFStringRef actionTitle(ABPersonRef person,
CFStringRef identifier)
```

Availability

Available in Mac OS X v10.3 and later.

Declared In

`ABActionsC.h`

ABActionEnabledCallback

Return `true` if the action menu item should be enabled, `false` otherwise. If the property returned by `ABActionGetPropertyCallback` (page 6) is a multi-value property, *identifier* contains the unique identifier of the value selected.

```
typedef Boolean (*ABActionEnabledCallback) (
   ABPersonRef person,
   CFStringRef identifier
);
```

You may implement the function like this:

```
Boolean actionEnabled(ABPersonRef person,
CFStringRef identifier)
```

Availability

Available in Mac OS X v10.3 and later.

Declared In

`ABActionsC.h`

ABActionGetPropertyCallback

Return the property the action applies to.

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```
typedef CFStringRef (*ABActionGetPropertyCallback)
(void);
```

You may implement the function like this:

```
CFStringRef actionProperty(void)
```

Availability
Available in Mac OS X v10.3 and later.

Declared In
`ABActionsC.h`

ABActionSelectedCallback

Execute the action. If the property returned by `ABActionGetPropertyCallback` (page 6) is a multi-value property, *`identifier`* contains the unique identifier of the value selected; otherwise, identifier is `NULL`.

```
typedef void (*ABActionSelectedCallback) (
   ABPersonRef person,
   CFStringRef identifier
);
```

You may implement the function like this:

```
void actionSelected(ABPersonRef person,
CFStringRef identifier)
```

Availability
Available in Mac OS X v10.3 and later.

Declared In
`ABActionsC.h`

Data Types

ABActionCallbacks

This is the structure that the `ABActionRegisterCallbacks` returns to tell Address Book about the action the plug-in implements.

```
typedef struct {
    CFIndex version;
    ABActionGetpropertyCallback property;
    ABActionCopyTitleCallback title;
    ABActionEnabledCallback enabled;
    ABActionSelectedCallback selected;
} ABActionCallbacks;
```

Availability
Available in Mac OS X v10.3 and later.

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Declared In
`ABActionsC.h`

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Document Revision History

This table describes the changes to *Address Book Actions Reference*.

Date	Notes
2007-07-08	Changed title from ABActions Reference for C.
2003-09-04	Refined description of `ABActionSelectedCallback`.
2003-08-20	First version of *ABActions Reference for C*.

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