
ABRecord C Reference

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ABRecord C Reference

Derived From:	CType
Framework:	AddressBook/ABAddressBookC.h
Companion guide	Address Book Programming Guide for Mac OS X
Declared in	ABAddressBookC.h ABGlobals.h

Overview

ABRecord is an abstract opaque type providing a common interface to and defining common properties for all records in the Address Book database. A property is a field in the database record such as the first or last name of a person record. ABRecord defines the types of properties supported, and basic functions for getting, setting, and removing property values.

Use [ABRecordCopyValue](#) (page 6) to get a record's property value, use [ABRecordSetValue](#) (page 8) to set a value, and [ABRecordRemoveValue](#) (page 7) to remove a value.

Each record in the Address Book database has a corresponding unique ID obtained using the [ABRecordCopyUniqueId](#) (page 6) function. The unique ID is used by other functions in the AddressBook framework.

You can check if a record is read-only by using the [ABRecordIsReadOnly](#) (page 7) function.

The ABRecord opaque type is “toll-free bridged” with its Objective-C counterpart. This means that the `ABRecordRef` type is interchangeable in function or method calls with instances of the ABRecord class.

Functions

ABRecordCopyRecordType

Returns the type of the given record.

```
CFStringRef ABRecordCopyRecordType (  
    ABRecordRef record  
);
```

Parameters

record

The record whose type you wish to obtain.

Return Value

The type of *record*, one of the `kAB...RecordType` constants. You are responsible for releasing this object.

Availability

Available in Mac OS X v10.2 and later.

Declared In

ABAddressBookC.h

ABRecordCopyUniqueId

Returns the unique ID of the receiver.

```
CFStringRef ABRecordCopyUniqueId (
    ABRecordRef record
);
```

Parameters

record

The record whose unique ID you wish to obtain.

Return Value

The unique ID corresponding to *record*. You are responsible for releasing this object.

Availability

Available in Mac OS X 10.2 and later.

Declared In

ABAddressBookC.h

ABRecordCopyValue

Returns the value of the given property.

```
CTypeRef ABRecordCopyValue (
    ABRecordRef record,
    CFStringRef property
);
```

Parameters

record

The record whose value you wish to obtain.

property

The property name in *record* whose value you wish to obtain. May be a pre-defined or program-defined property. See [Common Properties](#) (page 9) for a list of properties all records have, and specific ABRecord derived opaque types for any additional properties.

Return Value

The value for *property* in *record*. The type of the returned value depends on the property type (see [Property Types](#) for a list of possible property types). You are responsible for releasing this object.

Availability

Available in Mac OS X v10.2 and later.

Related Sample Code

AddressBookCarbon

MyFirstJNIProject

Declared In

ABAddressBookC.h

ABRecordCreateCopy

Returns a copy of the given record.

```
ABRecordRef ABRecordCreateCopy (
    ABRecordRef record
);
```

Parameters

record

The record you wish to copy.

Return Value

A copy of the specified ABRecordRef.

Availability

Available in Mac OS X v10.4 and later.

Declared In

ABAddressBookC.h

ABRecordIsReadOnly

Returns whether or not the record is read-only.

```
bool ABRecordIsReadOnly (
    ABRecordRef record
);
```

Parameters

record

The record you wish to check.

Return Value

true if record is read-only, false otherwise.

Availability

Available in Mac OS X v10.4 and later.

Declared In

ABAddressBookC.h

ABRecordRemoveValue

Removes the value of the given property.

```
bool ABRecordRemoveValue (
    ABRecordRef record,
    CFStringRef property
);
```

Parameters*record*

The record whose value you wish to remove.

property

The property name in *record* whose value you wish to remove. May be a pre-defined or program-defined property. See [Common Properties](#) (page 9) for a list of properties all records have, and specific ABRecord derived opaque types for any additional properties.

Return Value

The value for *property* in *record*. The type of the returned value depends on the property type (see [Property Types](#) for a list of possible property types). You are responsible for releasing this object.

Availability

Available in Mac OS X v10.2 and later.

Declared In

ABAddressBookC.h

ABRecordSetValue

Sets the value of a given property for a record.

```
bool ABRecordSetValue (
    ABRecordRef record,
    CFStringRef property,
    CTypeRef value
);
```

Parameters*record*

The record you wish to modify.

property

The property whose value you wish to set. May be a pre-defined or program-defined property. See [Common Properties](#) (page 9) for a list of properties all records have, and specific ABRecord derived opaque types for any additional properties. If NULL, this function raises an exception.

value

The new value for *property* in *record*. If NULL or not the correct type, this function raises an exception.

Return Value

If *property* is a multi-value list property, this method checks to see if the values in the multi-value list are the same type. If the multi-value list contains mixed types, this method returns `false`. Returns `true` if successful, `false` otherwise.

Availability

Available in Mac OS X v10.2 and later.

Related Sample Code

AddressBookCarbon

Declared In

ABAddressBookC.h

Data Types

ABRecordRef

A reference to an ABRecord object or any of its derived opaque types.

```
typedef void *ABRecordRef;
```

Availability

Available in Mac OS X v10.2 and later.

Declared In

ABAddressBookC.h

Constants

Common Properties

Properties common to all record types.

```
CFStringRef kABUIDProperty;  
CFStringRef kABCreationDateProperty;  
CFStringRef kABModificationDateProperty
```

Constants

kABUIDProperty

The UID property.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

kABCreationDateProperty

Creation date (when first saved).

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

kABModificationDateProperty

Modification date (when last saved).

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

Document Revision History

This table describes the changes to *ABRecord C Reference*.

Date	Notes
2005-04-29	Updated for accuracy and consistency.
2004-10-07	Revised for Mac OS X v10.4.
2003-08-20	Revised for Mac OS X v10.3.
2003-03-01	First version of <i>ABRecord Reference for C</i> .

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