

[Contacts](#) / CNContactVCardSerialization

## Class

# CNContactVCardSerialization

An object you use to convert to and from a vCard representation of the user's contacts.

iOS 9.0+ | iPadOS 9.0+ | Mac Catalyst 13.1+ | macOS 10.11+ | visionOS 1.0+ | watchOS 2.0+

```
class CNContactVCardSerialization
```

## Topics

### Extracting Contacts from a vCard

```
class func contacts(with: Data) throws -> [CNContact]
```

Returns the contacts from the vCard data.

### Getting a vCard for Contacts

```
class func data(with: [CNContact]) throws -> Data
```

Returns the vCard representation of the specified contacts.

### Getting a Descriptor

```
class func descriptorForRequiredKeys() -> any CNKeyDescriptor
```

Use to fetch all contact keys required to create vCard data from a contact.

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# Relationships

## Inherits From

NSObject

## Conforms To

CVarArg

CustomDebugStringConvertible

CustomStringConvertible

Equatable

Hashable

NSObjectProtocol

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## See Also

## Formatters

`class` CNContactFormatter

An object that you use to format contact information before displaying it to the user.

`class` CNPostalAddressFormatter

An object that you use to format a contact's postal addresses.

`class` CNContactsUserDefaults

An object that defines the default options to use when displaying contacts.