

API Collection

Protected resources

Control an

Documentation / Bundle ... / Information / Protected
Property List resources

Language: Swift ▾ API Changes: Show ▾

Bundle Resources

> := App execution

Services

▾ := Protected resources

Essentials

📄

Requesting Access to Protected Resources

📄

Inspecting App Activity Data

Bluetooth

T

NSBluetoothAlwaysUsageDescription

T

NSBluetoothPeripheralUsageDescri...

Deprecated

Calendar and reminders

📄

Accessing the Event Store

T

NSCalendarsUsageDescription

T

NSRemindersUsageDescription

Camera and microphone




📄

Requesting Authorization for Media Capture on iOS

protected system services and user data.

Overview

Before your app can access certain protected resources, like the Bluetooth

-  Requesting Authorization for Media Capture on macOS
-  NSCameraUsageDescription
-  NSMicrophoneUsageDescription

Contacts


-  Requesting authorization to access contacts


 Filter

interface, location information, or the user’s photos, the system asks the user for permission on behalf of your app. To signal that your app needs the access, you add a Usage Description key to your app’s Information Property List. You set the value associated with the key to a string that explains why your app needs access. The system displays this string when prompting the user, as described in Requesting Access to Protected

Topics

Essential S

 Requesting
Access to
Protected
Resources
Provide
a
purpose
string
that
explains
to the
user
why you
need
access
to
protecte
d
resourc
es.

 Inspecting
App
Activity
Data
Verify
that
your
app
access

accesses only the user data and network resources that you expect it to access.

Bluetooth

property list key

NSBluetoothAlwaysUsageDescription

A message that tells the user why the app needs access to Bluetooth.

Name: Privacy - Bluetooth Always

Always

Usage

Descript
ion

property list

key

NSBluetooth

Peripheral

Usage

Description

A
messag
e that
tells the
user
why the
app is
requesti
ng the
ability
to
connect
to
Bluetoot
h
peripher
als.

Name:

Privacy

-

Bluetoot
h


Peripher
al

Usage

Descript
ion

Deprecated

Calendar and reminder S

 Accessing the Event Store Request access to a user's calendar data through the event store.

property list key
NSCalendars
Usage
Description
A message that tells the user why the app is requesting access to the

user's

calenda
r data.

Name:

Privacy

-

Calenda
rs

Usage

Descript
ion

property list
key

NSReminders

Usage

Description

A
messag
e that
tells the
user
why the
app is
requesti
ng
access
to the
user's
reminde
rs.

Name:

Privacy


-

Remind
ers


Usage

Descript
ion

Camera and microphone

 Requesting Authorization for Media Capture on iOS

Respect user privacy by seeking permission to capture and store photos, audio, and video.

 Requesting Authorization for Media Capture on macOS

Prompt the user to authorize access to the

to the
camera

and
microph
one.

property list
key NSCamera
Usage
Description

A
messag
e that
tells the
user
why the
app is
requesti
ng
access
to the
device's
camera.


Name:
Privacy
-
Camera
Usage
Descript
ion

property list key
NSMicrophone
Usage
Description

A
messag
e that
tells the
user

user
why the
app is
requesti
ng
access
to the
device's
microph
one.
Name:
Privacy
-
Microph
one
Usage
Descript
ion

Contacts

-  Requesting authorization to access contacts
Request permission from the user to read, create, and modify their Contact s entries.

property list
key
NSContacts
Usage
Description

A
messag
e that
tells the
user
why the
app is
requesti
ng
access
to the
user’s
contact
s.

Name:
Privacy
–

Contact
s Usage
Descript
ion

Face ID

{ } Logging a User into Your App with Face ID or Touch ID Supplement your own authentication scheme with biometric authentication, making it easy for users to access sensitive parts of your app.

property list
key NSFace
IDUsage
Description
A

messag

e that
tells the
user
why the
app is
requesti
ng the
ability
to
authenti
cate
with
Face ID.

Name:
Privacy
- Face
ID
Usage
Descript
ion

Files and
folders

property list
key
NSDesktop
FolderUsage
Description

A
messag
e that
tells the
user
why the
app
needs

resources
access
to the
user's
Desktop
folder.
Name:
Privacy
-
Desktop
Folder
Usage
Description

property list
key
NSDocuments
FolderUsage
Description

A
message that
tells the
user
why the
app
needs
access
to the
user's
Documents
folder.
Name:
Privacy
-
Documents
Folder

Folder

Usage

Description

property list
key

NSDownloads
FolderUsage
Description

A
message that
tells the
user
why the
app
needs
access
to the
user's
Downloads
folder.

Name:
Privacy
-

Downloads
Folder
Usage
Description

property list
key

NSNetwork
Volumes
Usage
Description

A
messag
e that
tells the
user
why the
app
needs
access
to files
on a
network
volume.

Name:
Privacy
-
Network
Volume
s Usage
Descript
ion

property list
key
NSRemovable
Volumes
Usage
Description

A
messag
e that
tells the
user
why the
app
needs
access
to files

to files
on a
remova
ble
volume.
Name:
Privacy
-
Remova
ble
Volume
s Usage
Descript
ion

property list
key NSFile
Provider
DomainUsage
Description

A
messag
e that
tells the
user
why the
app
needs
access
to files
manage
d by a
file
provider

.
Name:
Privacy
-
Access


to a file
Provider
Domain
Usage
Description

Game center

property list
key
NSGKFriend
ListUsage
Description

A
messag
e that
tells the
user
why the
app
needs
access
to their
Game
Center
friends
list.

Health

 Setting
Up
Health
Kit
Set up
and

configur

e your
HealthKi
t store.

property list
key NSHealth
Clinical
Health
Records
ShareUsage
Description

A
messag
e to the
user
that
explains
why the
app
request
ed
permissi
on to
read
clinical
records.

Name:
Privacy
- Health
Records
Usage
Descript
ion

property list
key NSHealth
ShareUsage
Description

A
messag
e to the
user
that
explains
why the
app
request
ed
permissi
on to
read
samples
from the
HealthKi
t store.
Name:
Privacy
- Health
Share
Usage
Descript
ion


property list
key NSHealth
UpdateUsage
Description

A
messag
e to the
user
that
explains
why the
app
request

requested permission to save samples to the HealthKit store.
Name: Privacy - Health Update Usage Description

property list key NSHealthRequiredReadAuthorizationType Identifiers
The clinical record data types that your app must get permission to read.

Home

 Enabling HomeKit in Your App
Declare your app's intention to use HomeKit, and get permission from the user to access home automation accessories.


property list	
key	Description
NSHomeKitUsage	A message that tells the user why the app is requesting

access

to the
user’s
HomeKi
t
configur
ation
data.

Name:
Privacy
-
HomeKi
t Usage
Descript
ion

Location

 Choosing the
Location
Services
Authorization
to Request
Determi
ne the
authoriz
ation
your
app
needs
to
access
location
data.

property list
key
CLLocation
AlwaysAnd
WhenInUse
Usage
Description
A
messag
e that
tells the
user
why the
app is
requesti
ng
access
to the
user's
location
informat
ion at all
times.
Name:
Privacy
-
Locatio
n
Always
and
When In
Use
Usage
Descript
ion

property list
key
CLLocation
Usage
Description

A
messag
e that
tells the
user
why the
app is
requesti
ng
access
to the
user's
location
informat
ion.

Name:
Privacy
-
Locatio
n Usage
Descript
ion

property list
key
CLLocation
WhenInUse
Usage
Description

A
messag
e that

tells the

user why the app is requesting access to the user’s location information while the app is running in the foreground.

Name:
Privacy - Location When In Use Usage Description

property list key
CLLocationTemporary Usage Description Dictionary
A collection of

It UI
messag
es that
explain
why the
app is
requesti
ng
tempora
ry
access
to the
user's
location

.
Name:
Privacy
-
Locatio
n
Tempor
ary
Usage
Descript
ion
Dictiona
ry

property list
key
CLLocation
AlwaysUsage
Description

A
messag
e that
tells the
user
why the
app is

app is
requesti
ng
access
to the
user's
location
at all
times.
Name:
Privacy
-
Locatio
n
Always
Usage
Descript
ion

Deprecated

property list
key
NSWidget
Wants
Location
A
Boolean
value
that
indicate
s a
widget
uses
the
user's
location
informat
ion.
Name:
...

Widget

wants
location


property list
key
CLLocation
Default
Accuracy
Reduced

A
Boolean
value
that
indicate
s
whether
the app
request
s
reduced
location
accurac
y by
default.

Name:
Privacy
-
Locatio
n
Default
Accurac
y
Reduce
d

MediaPla
ver



 Requesting
Access to
Apple
Music
Library
Prompt
the user
to
authoriz
e
access
to Apple
Music
library.

property list
key NSApple
MusicUsage
Description
A
messag
e that
tells the
user
why the
app is
requesti
ng
access
to the
user's
media
library.
Name:
Privacy
- Media
Library

Usage

Description

Motion

property list
key NSMotion

Usage
Description

A
message that
tells the
user
why the
app is
requesting
access
to the
device's
motion
data.

Name:
Privacy
-

Motion
Usage
Description

property list
key NSFall
Detection
Usage
Description

A

message to the user that explains the app's request for permission to access fall detection event data.
Name:
Fall Detection Usage Description

Networking

property list key NSLocalNetworkUsageDescription
A message that tells the user why the app is

requesting access to the local network.
Name:
Privacy - Local Network Usage Description

property list key NSNearbyInteractionUsageDescription
A request for user permission to begin an interaction session with nearby devices.
Name:
Privacy - Nearby Interaction

UI

Usage

Descript
ion

~~property list~~
~~key NSNearby~~
~~Interaction~~
~~AllowOnce~~
~~Usage~~
~~Description~~

A one-
time
request
for user
permissi
on to
begin
an
interacti
on
session
with
nearby
devices.

Name:
Privacy
-


Nearby
Interacti
on Allow
Once
Usage
Descript
ion

Deprecated

NFC

property list
key
NFCReader
Usage
Description
A
messag
e that
tells the
user
why the
app is
requesti
ng
access
to the
device's
NFC
hardwar
e.
Name:
Privacy
- NFC
Scan
Usage
Descript
ion

Photos

 Delivering
an
Enhanced
Privacy
Experience
in Your
Photos

PHOTOS

App

Adopt the latest privacy enhancements to deliver advanced user-privacy controls.

.

property list
key NSPhotoLibraryAddUsageDescription

A message that tells the user why the app is requesting additional access to the user's photo library.

Name:
Privacy - Photo Library

Library
Addition
s Usage
Descript
ion

property list
key NSPhoto
Library
Usage
Description

A
messag
e that
tells the
user
why the
app is
requesti
ng
access
to the
user's
photo
library.
Name:
Privacy
- Photo
Library
Usage
Descript
ion

Scripting

property list
key
NSApple
Script

Enabled

A Boolean value indicating whether AppleScript is enabled.
Name: Scriptable

Security

property list key NSUpdate Security Policy
A dictionary that identifies which apps or installer packages the operating system allows to write to the app's

. .
bundle.

property list
key NSUser
Tracking
Usage
Description

A
messag
e that
informs
the user
why an
app is
requesti
ng
permissi
on to
use
data for
tracking
the user
or the
device.

Name:
Privacy
-
Trackin
g Usage
Descript
ion

property list
key NSApple
EventsUsage
Description

A
messag
e that

tells the

user why the app is requesting the ability to send Apple events.

Name:
Privacy
-
AppleEvents
Sending
Usage
Description

property list key
NSSystem
Administration
Usage
Description

A message in macOS that tells the user why the app is requesting to manipulate the system

system

configuration.

Name:

Privacy

-

System

Administration

Usage

Description

property list

key ITSApp

UsesNon

Exempt

Encryption

A

Boolean

value

indicating

whether

the app

uses

encryption

on.

Name:

App

Uses

Non-

Exempt

Encryption

on

property list key
ITSEncryption
Export
Compliance
Code

The
export
compliance
code
provided by
App
Store
Connect
for apps
that
require
it.

Name:
App
Encryption
on
Export
Compliance
Code

Sensors

property list
key NSSensor
KitUsage
Description

A short
description

ion or
the
purpose
of your
app's
research
h study.

property list
key
NSSensor
KitUsage
Detail


A
dictiona
ry that
includes
keys for
the
specific
informat
ion your
app
collects.

property list
key
NSSensor
Kit
Privacy
PolicyURL

A
hyperlin
k to a
webpag
e that
displays
the
privacy
polic

policy
for your
app's
research
study.

Siri


 Requesting
Authorization
to Use Siri
Request
permission
from
the user
for Siri
and
Maps to
commu
nicate
with
your
app or
Intents
app
extensio
n.

property list
key NSSiri
Usage
Description
A
messag
e that
tells the
user
why the
app is

..
requesti

ng to
send
user
data to
Siri.
Name:
Privacy
- Siri
Usage
Descript
ion

Speech

 Asking
Permission
to Use
Speech
Recognition

Ask the
user's
permissi
on to
perform
speech
recognit
ion
using
Apple's
servers.

property list
key NSSpeech
Recognition
Usage
Description

A

messag

e that
tells the
user
why the
app is
requesti
ng to
send
user
data to
Apple’s
speech
recognit
ion
servers.

Name:
Privacy
-
Speech
Recogni
tion
Usage
Descript
ion

TV

property list
key NSVideo
Subscriber
Account
Usage
Description

A
messag
e that
tells the

user

why the app is requesting access to the user's TV provider account.

Name:
Privacy - Video Subscriber Account Usage Description

Wallet

property list key
NSIdentity Usage Description
A message that tells the user why the app is requesting

identity
information.
Name:
Privacy
-
Identity
Usage
Description

Wi-Fi

property list
key
**UIRequires
Persistent
WiFi**

A
Boolean
value
indicating
whether
the app
requires
a Wi-Fi
connection.
Name:
Application uses
Wi-Fi

See

Also

Services

☰ Data and storage
Regulate documents, URLs, and other kinds of data movement and storage.

☰ App services
Configure services provided by the app, like support for giving directions or using game controllers.

Kernel
and
drivers
Configure
re
device
drivers
provided by the
app.