



developers

Platform

Kotlin

More ▾



Search

LANGUAGE ▾

CONNEXION

Versions

▶ Android 11 Beta

▼ Android 10

Home

Android 10 highlights

▼ Privacy and location

Overview

Privacy changes

▶ Behavior changes for apps

Features and APIs

▶ Get started with Android 10

▶ Pie

▶ Oreo

▶ Nougat

▶ Marshmallow

▶ Lollipop

▶ KitKat

Dashboards

Devices

▶ Wear OS

Android TV

Android for Cars

▶ Android Things

Chrome OS devices

Restriction on enabling and disabling Wi-Fi

Apps targeting Android 10 or higher cannot enable or disable Wi-Fi. The `WifiManager.setWifiEnabled()` method always returns `false`.

If you need to prompt users to enable and disable Wi-Fi, use a [settings panel](#).

Restrictions on direct access to configured Wi-Fi networks

To protect user privacy, manual configuration of the list of Wi-Fi networks is restricted to system apps and [device policy controllers \(DPCs\)](#). A given DPC can be either the device owner or the profile owner.

If your app targets Android 10 or higher, and it isn't a system app or a DPC, then the following methods don't return useful data:

- The `getConfiguredNetworks()` method always returns an empty list.


★

Note: If a carrier app calls `getConfiguredNetworks()`, the system returns a list containing only the networks that the carrier configured.

- Each network operation method that returns an integer value—`addNetwork()` and `updateNetwork()`—always returns `-1`.
- Each network operation that returns a boolean value—`removeNetwork()`, `reassociate()`, `enableNetwork()`, `disableNetwork()`, `reconnect()`, and `disconnect()`—always returns `false`.

If your app needs to connect to Wi-Fi networks, use the following alternative methods:


- To trigger an instant local connection to a Wi-Fi network, use `WifiNetworkSpecifier` in a standard `NetworkRequest` object.
- To add Wi-Fi networks for consideration for providing internet access to the user, work with `WifiNetworkSuggestion` objects. You can add and remove networks that appear in the auto-connect network selection dialog by calling `addNetworkSuggestions()` and `removeNetworkSuggestions()`, respectively. These methods don't require any location permissions.

developers

Platform

Docs

More ▾

 Search

ENGLISH ▾

SIGN IN

OVERVIEW

GUIDES

REFERENCE

SAMPLES

DESIGN & QUALITY

ScanResult

ScanResult.

InformationElement

SoftApConfiguration

WifiConfiguration

WifiConfiguration.

AuthAlgorithm

WifiConfiguration.GroupCipher

WifiConfiguration.

GroupMgmtCipher

WifiConfiguration.KeyMgmt

WifiConfiguration.

PairwiseCipher

WifiConfiguration.Protocol

WifiConfiguration.Status

WifiEnterpriseConfig

WifiEnterpriseConfig.Eap

WifiEnterpriseConfig.Phase2

WifiInfo

WifiInfo.Builder

WifiManager

WifiManager.

LocalOnlyHotspotCallback

WifiManager.

LocalOnlyHotspotReservation

WifiManager.MulticastLock

WifiManager.

ScanResultsCallback

WifiManager.WifiLock

WifiManager.WpsCallback

WifiNetworkSpecifier

WifiNetworkSpecifier.Builder

WifiNetworkSuggestion

WifiNetworkSuggestion.Builder

WpsInfo

Enums

android.net.wifi.aware

android.net.wifi.hotspot2

android.net.wifi.hotspot2.omadm

addNetwork

Added in API level 1

Deprecated in API level 29

```
public int addNetwork (WifiConfiguration config)
```

! This method was deprecated in API level 29.

a) See [WifiNetworkSpecifier.Builder#build\(\)](#) for new mechanism to trigger connection to a Wi-Fi network. b) See [addNetworkSuggestions\(java.util.List\)](#), [removeNetworkSuggestions\(java.util.List\)](#) for new API to add Wi-Fi networks for consideration when auto-connecting to wifi. **Compatibility Note:** For applications targeting [Build.VERSION_CODES.Q](#) or above, this API will always fail and return `-1`.

Deprecation Exemptions:

- Device Owner (DO), Profile Owner (PO) and system apps.

Add a new network description to the set of configured networks. The `networkId` field of the supplied configuration object is ignored.

The new network will be marked DISABLED by default. To enable it, called [enableNetwork\(int, boolean\)](#).

Parameters

config	WifiConfiguration : the set of variables that describe the configuration, contained in a WifiConfiguration object. If the WifiConfiguration has an Http Proxy set the calling app must be System, or be provisioned as the Profile or Device Owner.
--------	--

Returns

int	the ID of the newly created network description. This is used in other operations to specified the network to be acted upon. Returns <code>-1</code> on failure.
-----	--