

added in [API level 1](#)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

public static final class Manifest.permission

extends [Object](#) (<https://developer.android.com/reference/java/lang/Object.html>)

[java.lang.Object](#) (<https://developer.android.com/reference/java/lang/Object.html>)

↳ android.Manifest.permission

Summary

Constants

String

(<https://developer.android.com/reference/java/lang/String.html>)

ACCEPT_HANOVER

(https://developer.android.com/reference/android/Manifest.permission.html#ACCEPT_HANOVER)

Allows a calling app to continue a call which was started in another app.

String

(<https://developer.android.com/reference/java/lang/String.html>)

ACCESS_CHECKIN_PROPERTIES

(https://developer.android.com/reference/android/Manifest.permission.html#ACCESS_CHECKIN_PROPERTIES)

Allows read/write access to the "properties" table in the checkin database, to change values that get uploaded.

String

(<https://developer.android.com/reference/java/lang/String.html>)

ACCESS_COARSE_LOCATION

(https://developer.android.com/reference/android/Manifest.permission.html#ACCESS_COARSE_LOCATION)

Allows an app to access approximate location.

String

(<https://developer.android.com/reference/java/lang/String.html>)

ACCESS_FINE_LOCATION

(https://developer.android.com/reference/android/Manifest.permission.html#ACCESS_FINE_LOCATION)

Allows an app to access precise location.

String

(<https://developer.android.com/reference/java/lang/String.html>)

ACCESS_LOCATION_EXTRA_COMMANDS

(https://developer.android.com/reference/android/Manifest.permission.html#ACCESS_LOCATION_EXTRA_COMMANDS)

Allows an application to access extra location provider commands.

String

(<https://developer.android.com/reference/java/lang/String.html>)

ACCESS_NETWORK_STATE

(https://developer.android.com/reference/android/Manifest.permission.html#ACCESS_NETWORK_STATE)

Allows applications to access information about networks.

String

(<https://developer.android.com/reference/java/lang/String.html>)

ACCESS_NOTIFICATION_POLICY

(https://developer.android.com/reference/android/Manifest.permission.html#ACCESS_NOTIFICATION_POLICY)

Marker permission for applications that wish to access notification policy.

String

(<https://developer.android.com/reference/java/lang/String.html>)

ACCESS_WIFI_STATE

(https://developer.android.com/reference/android/Manifest.permission.html#ACCESS_WIFI_STATE)

Allows applications to access information about Wi-Fi networks.

String

(<https://developer.android.com/reference/java/lang/String.html>)

ACCOUNT_MANAGER

(https://developer.android.com/reference/android/Manifest.permission.html#ACCOUNT_MANAGER)

Allows applications to call into AccountAuthenticators.

String

(<https://developer.android.com/reference/java/lang/String.html>)

ADD_VOICEMAIL

(https://developer.android.com/reference/android/Manifest.permission.html#ADD_VOICEMAIL)

Allows an application to add voicemails into the system.

String

(<https://developer.android.com/reference/java/lang/String.html>)

ANSWER_PHONE_CALLS

(https://developer.android.com/reference/android/Manifest.permission.html#ANSWER_PHONE_CALLS)

Allows the app to answer an incoming phone call.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BATTERY_STATS

(https://developer.android.com/reference/android/Manifest.permission.html#BATTERY_STATS)

Allows an application to collect battery statistics

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_ACCESSIBILITY_SERVICE

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_ACCESSIBILITY_SERVICE)

Must be required by an **AccessibilityService**

(<https://developer.android.com/reference/android/accessibilityservice/AccessibilityService.html>)

, to ensure that only the system can bind to it.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_APPWIDGET

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_APPWIDGET)

Allows an application to tell the AppWidget service which application can access AppWidget's data.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_AUTOFILL_SERVICE

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_AUTOFILL_SERVICE)

Must be required by a **AutofillService**
(<https://developer.android.com/reference/android/service/autofill/AutofillService.html>)
, to ensure that only the system can bind to it.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_CARRIER_MESSAGING_SERVICE

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_CARRIER_MESSAGING_SERVICE)

This constant was deprecated in API level 23. Use

BIND_CARRIER_SERVICES

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_CARRIER_SERVICES)
instead

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_CARRIER_SERVICES

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_CARRIER_SERVICES)

The system process that is allowed to bind to services in carrier apps will have this permission.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_CHOOSER_TARGET_SERVICE

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_CHOOSER_TARGET_SERVICE)

Must be required by a **ChooserTargetService**
(<https://developer.android.com/reference/android/service/chooser/ChooserTargetService.html>)
, to ensure that only the system can bind to it.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_CONDITION_PROVIDER_SERVICE

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_CONDITION_PROVIDER_SERVICE)

Must be required by a **ConditionProviderService**
(<https://developer.android.com/reference/android/service/notification/ConditionProviderService.html>)

, to ensure that only the system can bind to it.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_DEVICE_ADMIN

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_DEVICE_ADMIN)

Must be required by device administration receiver, to ensure that only the system can interact with it.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_DREAM_SERVICE

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_DREAM_SERVICE)

Must be required by an **DreamService**

(<https://developer.android.com/reference/android/service/dreams/DreamService.html>)

, to ensure that only the system can bind to it.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_INCALL_SERVICE

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_INCALL_SERVICE)

Must be required by a **InCallService**

(<https://developer.android.com/reference/android/telecom/InCallService.html>)

, to ensure that only the system can bind to it.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_INPUT_METHOD

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_INPUT_METHOD)

Must be required by an **InputMethodService**

(<https://developer.android.com/reference/android/inputmethodservice/InputMethodService.html>)

, to ensure that only the system can bind to it.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_MIDI_DEVICE_SERVICE

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_MIDI_DEVICE_SERVICE)

Must be required by an **MidiDeviceService**

(<https://developer.android.com/reference/android/media/midi/MidiDeviceService.html>)

, to ensure that only the system can bind to it.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_NFC_SERVICE

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_NFC_SERVICE)

Must be required by a **HostApduService**
(<https://developer.android.com/reference/android/nfc/cardemulation/HostApduService.html>)
or **OffHostApduService**
(<https://developer.android.com/reference/android/nfc/cardemulation/OffHostApduService.html>)
to ensure that only the system can bind to it.

<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>BIND_NOTIFICATION_LISTENER_SERVICE</u> (https://developer.android.com/reference/android/Manifest.permission.html#BIND_NOTIFICATION_LISTENER_SERVICE)
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Must be required by an **NotificationListenerService**
(<https://developer.android.com/reference/android/service/notification/NotificationListenerService.html>)
, to ensure that only the system can bind to it.

<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>BIND_PRINT_SERVICE</u> (https://developer.android.com/reference/android/Manifest.permission.html#BIND_PRINT_SERVICE)
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Must be required by a **PrintService**
(<https://developer.android.com/reference/android/printservice/PrintService.html>)
, to ensure that only the system can bind to it.

<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>BIND_QUICK_SETTINGS_TILE</u> (https://developer.android.com/reference/android/Manifest.permission.html#BIND_QUICK_SETTINGS_TILE)
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Allows an application to bind to third party quick settings tiles.

<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>BIND_REMOTEVIEWS</u> (https://developer.android.com/reference/android/Manifest.permission.html#BIND_REMOTEVIEWS)
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Must be required by a **RemoteViewsService**
(<https://developer.android.com/reference/android/widget/RemoteViewsService.html>)
, to ensure that only the system can bind to it.

<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>BIND_SCREENING_SERVICE</u> (https://developer.android.com/reference/android/Manifest.permission.html#BIND_SCREENING_SERVICE)
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Must be required by a **CallScreeningService**
(<https://developer.android.com/reference/android/telecom/CallScreeningService.html>)
, to ensure that only the system can bind to it.

<u>String</u>	<u>BIND_TELECOM_CONNECTION_SERVICE</u>
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(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#BIND_TELECOM_CONNECTION_SERVICE)

Must be required by a [ConnectionService](#)

(<https://developer.android.com/reference/android/telecom/ConnectionService.html>)

, to ensure that only the system can bind to it.

String

BIND_TEXT_SERVICE

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#BIND_TEXT_SERVICE)

Must be required by a TextService (e.g.

String

BIND_TV_INPUT

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#BIND_TV_INPUT)

Must be required by a [TvInputService](#)

(<https://developer.android.com/reference/android/media/tv/TvInputService.html>)

to ensure that only the system can bind to it.

String

BIND_VISUAL_VOICEMAIL_SERVICE

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#BIND_VISUAL_VOICEMAIL_SERVICE)

Must be required by a link [VisualVoicemailService](#)

(<https://developer.android.com/reference/android/telephony/VisualVoicemailService.html>)

to ensure that only the system can bind to it.

String

BIND_VOICE_INTERACTION

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#BIND_VOICE_INTERACTION)

Must be required by a [VoiceInteractionService](#)

(<https://developer.android.com/reference/android/service/voice/VoiceInteractionService.html>)

, to ensure that only the system can bind to it.

String

BIND_VPN_SERVICE

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#BIND_VPN_SERVICE)

Must be required by a [VpnService](#)

(<https://developer.android.com/reference/android/net/VpnService.html>)

, to ensure that only the system can bind to it.

String

BIND_VR_LISTENER_SERVICE

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#BIND_VR_LISTENER_SERVICE)

Must be required by an [VrListenerService](#)

(<https://developer.android.com/reference/android/service/vr/VrListenerService.html>)

, to ensure that only the system can bind to it.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BIND_WALLPAPER

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_WALLPAPER)

Must be required by a [WallpaperService](#)

(<https://developer.android.com/reference/android/service/wallpaper/WallpaperService.html>)

, to ensure that only the system can bind to it.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BLUETOOTH

(<https://developer.android.com/reference/android/Manifest.permission.html#BLUETOOTH>)

Allows applications to connect to paired bluetooth devices.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BLUETOOTH_ADMIN

(https://developer.android.com/reference/android/Manifest.permission.html#BLUETOOTH_ADMIN)

Allows applications to discover and pair bluetooth devices.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BLUETOOTH_PRIVILEGED

(https://developer.android.com/reference/android/Manifest.permission.html#BLUETOOTH_PRIVILEGED)

Allows applications to pair bluetooth devices without user interaction, and to allow or disallow phonebook access or message access.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BODY_SENSORS

(https://developer.android.com/reference/android/Manifest.permission.html#BODY_SENSORS)

Allows an application to access data from sensors that the user uses to measure what is happening inside his/her body, such as heart rate.

String

(<https://developer.android.com/reference/java/lang/String.html>)

BROADCAST_PACKAGE_REMOVED

(https://developer.android.com/reference/android/Manifest.permission.html#BROADCAST_PACKAGE_REMOVED)

Allows an application to broadcast a notification that an application package has been removed.

String

BROADCAST_SMS

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#BROADCAST_SMS)

Allows an application to broadcast an SMS receipt notification.

String **BROADCAST_STICKY**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#BROADCAST_STICKY)

Allows an application to broadcast sticky intents.

String **BROADCAST_WAP_PUSH**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#BROADCAST_WAP_PUSH)

Allows an application to broadcast a WAP PUSH receipt notification.

String **CALL_PHONE**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#CALL_PHONE)

Allows an application to initiate a phone call without going through the Dialer user interface for the user to confirm the call.

String **CALL_PRIVILEGED**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#CALL_PRIVILEGED)

Allows an application to call any phone number, including emergency numbers, without going through the Dialer user interface for the user to confirm the call being placed.

String **CAMERA**

(<https://developer.android.com/reference/java/lang/String.html>) (<https://developer.android.com/reference/android/Manifest.permission.html#CAMERA>)

Required to be able to access the camera device.

String **CAPTURE_AUDIO_OUTPUT**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#CAPTURE_AUDIO_OUTPUT)

Allows an application to capture audio output.

String **CAPTURE_SECURE_VIDEO_OUTPUT**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#CAPTURE_SECURE_VIDEO_OUTPUT)

Allows an application to capture secure video output.

String **CAPTURE_VIDEO_OUTPUT**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#CAPTURE_VIDEO_OUTPUT)

Allows an application to capture video output.

String **CHANGE_COMPONENT_ENABLED_STATE**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#CHANGE_COMPONENT_ENABLED_STATE)

Allows an application to change whether an application component (other than its own) is enabled or not.

String **CHANGE_CONFIGURATION**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#CHANGE_CONFIGURATION)

Allows an application to modify the current configuration, such as locale.

String **CHANGE_NETWORK_STATE**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#CHANGE_NETWORK_STATE)

Allows applications to change network connectivity state.

String **CHANGE_WIFI_MULTICAST_STATE**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#CHANGE_WIFI_MULTICAST_STATE)

Allows applications to enter Wi-Fi Multicast mode.

String **CHANGE_WIFI_STATE**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#CHANGE_WIFI_STATE)

Allows applications to change Wi-Fi connectivity state.

String **CLEAR_APP_CACHE**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#CLEAR_APP_CACHE)

Allows an application to clear the caches of all installed applications on the device.

String **CONTROL_LOCATION_UPDATES**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#CONTROL_LOCATION_UPDATES)

Allows enabling/disabling location update notifications from the radio.

String **DELETE_CACHE_FILES**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#DELETE_CACHE_FILES)

Old permission for deleting an app's cache files, no longer used, but signals for us to quietly ignore calls instead of throwing an exception.

String

DELETE_PACKAGES

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#DELETE_PACKAGES)

Allows an application to delete packages.

String

DIAGNOSTIC

(<https://developer.android.com/reference/java/lang/String.html>) (<https://developer.android.com/reference/android/Manifest.permission.html#DIAGNOSTIC>)

Allows applications to RW to diagnostic resources.

String

DISABLE_KEYGUARD

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#DISABLE_KEYGUARD)

Allows applications to disable the keyguard if it is not secure.

String

DUMP

(<https://developer.android.com/reference/java/lang/String.html>) (<https://developer.android.com/reference/android/Manifest.permission.html#DUMP>)

Allows an application to retrieve state dump information from system services.

String

EXPAND_STATUS_BAR

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#EXPAND_STATUS_BAR)

Allows an application to expand or collapse the status bar.

String

FACTORY_TEST

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#FACTORY_TEST)

Run as a manufacturer test application, running as the root user.

String

FOREGROUND_SERVICE

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#FOREGROUND_SERVICE)

Allows a regular application to use **Service.startForeground** ([https://developer.android.com/reference/android/app/Service.html#startForeground\(int,%20android.app.Notification\)\)](https://developer.android.com/reference/android/app/Service.html#startForeground(int,%20android.app.Notification)))

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<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>GET_ACCOUNTS</u> (https://developer.android.com/reference/android/Manifest.permission.html#GET_ACCOUNTS)
Allows access to the list of accounts in the Accounts Service.	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>GET_ACCOUNTS_PRIVILEGED</u> (https://developer.android.com/reference/android/Manifest.permission.html#GET_ACCOUNTS_PRIVILEGED)
Allows access to the list of accounts in the Accounts Service.	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>GET_PACKAGE_SIZE</u> (https://developer.android.com/reference/android/Manifest.permission.html#GET_PACKAGE_SIZE)
Allows an application to find out the space used by any package.	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>GET_TASKS</u> (https://developer.android.com/reference/android/Manifest.permission.html#GET_TASKS)
<i>This constant was deprecated in API level 21. No longer enforced.</i>	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>GLOBAL_SEARCH</u> (https://developer.android.com/reference/android/Manifest.permission.html#GLOBAL_SEARCH)
This permission can be used on content providers to allow the global search system to access their data.	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>INSTALL_LOCATION_PROVIDER</u> (https://developer.android.com/reference/android/Manifest.permission.html#INSTALL_LOCATION_PROVIDER)
Allows an application to install a location provider into the Location Manager.	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>INSTALL_PACKAGES</u> (https://developer.android.com/reference/android/Manifest.permission.html#INSTALL_PACKAGES)
Allows an application to install packages.	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>INSTALL_SHORTCUT</u> (https://developer.android.com/reference/android/Manifest.permission.html#INSTALL_SHORTCUT)
Allows an application to install a shortcut in Launcher.	
<u>String</u>	<u>INSTANT_APP_FOREGROUND_SERVICE</u>

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#INSTANT_APP_FOREGROUND_SERVICE)

Allows an instant app to create foreground services.

String

INTERNET

(<https://developer.android.com/reference/java/lang/String.html>) (<https://developer.android.com/reference/android/Manifest.permission.html#INTERNET>)

Allows applications to open network sockets.

String

KILL_BACKGROUND_PROCESSES

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#KILL_BACKGROUND_PROCESSES)

Allows an application to call

ActivityManager.killBackgroundProcesses(String)

([https://developer.android.com/reference/android/app/ActivityManager.html#killBackgroundProcesses\(java.lang.String\)](https://developer.android.com/reference/android/app/ActivityManager.html#killBackgroundProcesses(java.lang.String)))

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String

LOCATION_HARDWARE

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#LOCATION_HARDWARE)

Allows an application to use location features in hardware, such as the geofencing api.

String

MANAGE_DOCUMENTS

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#MANAGE_DOCUMENTS)

Allows an application to manage access to documents, usually as part of a document picker.

String

MANAGE_OWN_CALLS

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#MANAGE_OWN_CALLS)

Allows a calling application which manages its own calls through the self-managed **ConnectionService**

(<https://developer.android.com/reference/android/telecom/ConnectionService.html>)

APIs.

String

MASTER_CLEAR

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#MASTER_CLEAR)

Not for use by third-party applications.

<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>MEDIA_CONTENT_CONTROL</u> (https://developer.android.com/reference/android/Manifest.permission.html#MEDIA_CONTENT_CONTROL)
Allows an application to know what content is playing and control its playback.	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>MODIFY_AUDIO_SETTINGS</u> (https://developer.android.com/reference/android/Manifest.permission.html#MODIFY_AUDIO_SETTINGS)
Allows an application to modify global audio settings.	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>MODIFY_PHONE_STATE</u> (https://developer.android.com/reference/android/Manifest.permission.html#MODIFY_PHONE_STATE)
Allows modification of the telephony state - power on, mmi, etc.	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>MOUNT_FORMAT_FILESYSTEMS</u> (https://developer.android.com/reference/android/Manifest.permission.html#MOUNT_FORMAT_FILESYSTEMS)
Allows formatting file systems for removable storage.	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>MOUNT_UNMOUNT_FILESYSTEMS</u> (https://developer.android.com/reference/android/Manifest.permission.html#MOUNT_UNMOUNT_FILESYSTEMS)
Allows mounting and unmounting file systems for removable storage.	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>NFC</u> (https://developer.android.com/reference/android/Manifest.permission.html#NFC)
Allows applications to perform I/O operations over NFC.	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>NFC_TRANSACTION_EVENT</u> (https://developer.android.com/reference/android/Manifest.permission.html#NFC_TRANSACTION_EVENT)
Allows applications to receive NFC transaction events.	
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>PACKAGE_USAGE_STATS</u> (https://developer.android.com/reference/android/Manifest.permission.html#PACKAGE_USAGE_STATS)
Allows an application to collect component usage statistics	
Declaring the permission implies intention to use the API and the user of the device can grant permission through the Settings application.	

String

(<https://developer.android.com/reference/java/lang/String.html>)

PERSISTENT_ACTIVITY

(https://developer.android.com/reference/android/Manifest.permission.html#PERSISTENT_ACTIVITY)

This constant was deprecated in API level 9. This functionality will be removed in the future; please do not use. Allow an application to make its activities persistent.

String

(<https://developer.android.com/reference/java/lang/String.html>)

PROCESS_OUTGOING_CALLS

(https://developer.android.com/reference/android/Manifest.permission.html#PROCESS_OUTGOING_CALLS)

Allows an application to see the number being dialed during an outgoing call with the option to redirect the call to a different number or abort the call altogether.

String

(<https://developer.android.com/reference/java/lang/String.html>)

READ_CALENDAR

(https://developer.android.com/reference/android/Manifest.permission.html#READ_CALENDAR)

Allows an application to read the user's calendar data.

String

(<https://developer.android.com/reference/java/lang/String.html>)

READ_CALL_LOG

(https://developer.android.com/reference/android/Manifest.permission.html#READ_CALL_LOG)

Allows an application to read the user's call log.

String

(<https://developer.android.com/reference/java/lang/String.html>)

READ_CONTACTS

(https://developer.android.com/reference/android/Manifest.permission.html#READ_CONTACTS)

Allows an application to read the user's contacts data.

String

(<https://developer.android.com/reference/java/lang/String.html>)

READ_EXTERNAL_STORAGE

(https://developer.android.com/reference/android/Manifest.permission.html#READ_EXTERNAL_STORAGE)

Allows an application to read from external storage.

String

(<https://developer.android.com/reference/java/lang/String.html>)

READ_FRAME_BUFFER

(https://developer.android.com/reference/android/Manifest.permission.html#READ_FRAME_BUFFER)

Allows an application to take screen shots and more generally get access to the frame buffer data.

String

(<https://developer.android.com/reference/java/lang/String.html>)

READ_INPUT_STATE

(https://developer.android.com/reference/android/Manifest.permission.html#READ_INPUT_STATE)

This constant was deprecated in API level 16. The API that used this permission has been removed.

String

(<https://developer.android.com/reference/java/lang/String.html>)

READ_LOGS

(https://developer.android.com/reference/android/Manifest.permission.html#READ_LOGS)

Allows an application to read the low-level system log files.

String

(<https://developer.android.com/reference/java/lang/String.html>)

READ_PHONE_NUMBERS

(https://developer.android.com/reference/android/Manifest.permission.html#READ_PHONE_NUMBERS)

Allows read access to the device's phone number(s).

String

(<https://developer.android.com/reference/java/lang/String.html>)

READ_PHONE_STATE

(https://developer.android.com/reference/android/Manifest.permission.html#READ_PHONE_STATE)

Allows read only access to phone state, including the phone number of the device, current cellular network information, the status of any ongoing calls, and a list of any **PhoneAccount** (<https://developer.android.com/reference/android/telecom/PhoneAccount.html>)s registered on the device.

String

(<https://developer.android.com/reference/java/lang/String.html>)

READ_SMS

(https://developer.android.com/reference/android/Manifest.permission.html#READ_SMS)

Allows an application to read SMS messages.

String

(<https://developer.android.com/reference/java/lang/String.html>)

READ_SYNC_SETTINGS

(https://developer.android.com/reference/android/Manifest.permission.html#READ_SYNC_SETTINGS)

Allows applications to read the sync settings.

String

(<https://developer.android.com/reference/java/lang/String.html>)

READ_SYNC_STATS

(https://developer.android.com/reference/android/Manifest.permission.html#READ_SYNC_STATS)

Allows applications to read the sync stats.

String

(<https://developer.android.com/reference/java/lang/String.html>)

READ_VOICEMAIL

(https://developer.android.com/reference/android/Manifest.permission.html#READ_VOICEMAIL)

Allows an application to read voicemails in the system.

String**REBOOT**

(<https://developer.android.com/reference/java/lang/String.html>) (<https://developer.android.com/reference/android/Manifest.permission.html#REBOOT>)

Required to be able to reboot the device.

String

RECEIVE_BOOT_COMPLETED

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#RECEIVE_BOOT_COMPLETED)

Allows an application to receive the

Intent.ACTION_BOOT_COMPLETED

(https://developer.android.com/reference/android/content/Intent.html#ACTION_BOOT_COMPLETED)

that is broadcast after the system finishes booting.

String

RECEIVE_MMS

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#RECEIVE_MMS)

Allows an application to monitor incoming MMS messages.

String

RECEIVE_SMS

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#RECEIVE_SMS)

Allows an application to receive SMS messages.

String

RECEIVE_WAP_PUSH

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#RECEIVE_WAP_PUSH)

Allows an application to receive WAP push messages.

String

RECORD_AUDIO

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#RECORD_AUDIO)

Allows an application to record audio.

String

REORDER_TASKS

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#REORDER_TASKS)

Allows an application to change the Z-order of tasks.

String

REQUEST_COMPANION_RUN_IN_BACKGROUND

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#REQUEST_COMPANION_RUN_IN_BACKGROUND)

Allows a companion app to run in the background.

String

REQUEST_COMPANION_USE_DATA_IN_BACKGROUND

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#REQUEST_COMPANION_USE_DATA_IN_BACKGROUND)

Allows a companion app to use data in the background.

String **REQUEST_DELETE_PACKAGES**
(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#REQUEST_DELETE_PACKAGES)

Allows an application to request deleting packages.

String **REQUEST_IGNORE_BATTERY_OPTIMIZATIONS**
(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#REQUEST_IGNORE_BATTERY_OPTIMIZATIONS)

Permission an application must hold in order to use **Settings.ACTION_REQUEST_IGNORE_BATTERY_OPTIMIZATIONS**
(https://developer.android.com/reference/android/provider/Settings.html#ACTION_REQUEST_IGNORE_BATTERY_OPTIMIZATIONS)

String **REQUEST_INSTALL_PACKAGES**
(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#REQUEST_INSTALL_PACKAGES)

Allows an application to request installing packages.

String **RESTART_PACKAGES**
(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#RESTART_PACKAGES)

*This constant was deprecated in API level 8. The **ActivityManager.restartPackage(String)** ([https://developer.android.com/reference/android/app/ActivityManager.html#restartPackage\(java.lang.String\)](https://developer.android.com/reference/android/app/ActivityManager.html#restartPackage(java.lang.String))) API is no longer supported.*

String **SEND_RESPOND_VIA_MESSAGE**
(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#SEND_RESPOND_VIA_MESSAGE)

Allows an application (Phone) to send a request to other applications to handle the respond-via-message action during incoming calls.

String **SEND_SMS**
(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#SEND_SMS)

Allows an application to send SMS messages.

String

(<https://developer.android.com/reference/java/lang/String.html>)

SET_ALARM

(https://developer.android.com/reference/android/Manifest.permission.html#SET_ALARM)

Allows an application to broadcast an Intent to set an alarm for the user.

String

(<https://developer.android.com/reference/java/lang/String.html>)

SET_ALWAYS_FINISH

(https://developer.android.com/reference/android/Manifest.permission.html#SET_ALWAYS_FINISH)

Allows an application to control whether activities are immediately finished when put in the background.

String

(<https://developer.android.com/reference/java/lang/String.html>)

SET_ANIMATION_SCALE

(https://developer.android.com/reference/android/Manifest.permission.html#SET_ANIMATION_SCALE)

Modify the global animation scaling factor.

String

(<https://developer.android.com/reference/java/lang/String.html>)

SET_DEBUG_APP

(https://developer.android.com/reference/android/Manifest.permission.html#SET_DEBUG_APP)

Configure an application for debugging.

String

(<https://developer.android.com/reference/java/lang/String.html>)

SET_PREFERRED_APPLICATIONS

(https://developer.android.com/reference/android/Manifest.permission.html#SET_PREFERRED_APPLICATIONS)

This constant was deprecated in API level 7. No longer useful, see

[PackageManager.addPackageToPreferred\(String\)](#).

([https://developer.android.com/reference/android/content/pm/PackageManager.html#addPackageToPreferred\(java.lang.String\)](https://developer.android.com/reference/android/content/pm/PackageManager.html#addPackageToPreferred(java.lang.String)))
for details.

String

(<https://developer.android.com/reference/java/lang/String.html>)

SET_PROCESS_LIMIT

(https://developer.android.com/reference/android/Manifest.permission.html#SET_PROCESS_LIMIT)

Allows an application to set the maximum number of (not needed) application processes that can be running.

String

(<https://developer.android.com/reference/java/lang/String.html>)

SET_TIME

(https://developer.android.com/reference/android/Manifest.permission.html#SET_TIME)

Allows applications to set the system time.

String**SET_TIME_ZONE**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#SET_TIME_ZONE)

Allows applications to set the system time zone.

String

SET_WALLPAPER

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#SET_WALLPAPER)

Allows applications to set the wallpaper.

String

SET_WALLPAPER_HINTS

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#SET_WALLPAPER_HINTS)

Allows applications to set the wallpaper hints.

String

SIGNAL_PERSISTENT_PROCESSES

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#SIGNAL_PERSISTENT_PROCESSES)

Allow an application to request that a signal be sent to all persistent processes.

String

STATUS_BAR

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#STATUS_BAR)

Allows an application to open, close, or disable the status bar and its icons.

String

SYSTEM_ALERT_WINDOW

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#SYSTEM_ALERT_WINDOW)

Allows an app to create windows using the type **WindowManager.LayoutParams.TYPE_APPLICATION_OVERLAY** (https://developer.android.com/reference/android/view/WindowManager.LayoutParams.html#TYPE_APPLICATION_OVERLAY), shown on top of all other apps.

String

TRANSMIT_IR

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#TRANSMIT_IR)

Allows using the device's IR transmitter, if available.

String

UNINSTALL_SHORTCUT

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#UNINSTALL_SHORTCUT)

This permission is no longer supported.

String

(<https://developer.android.com/reference/java/lang/String.html>)

UPDATE_DEVICE_STATS

(https://developer.android.com/reference/android/Manifest.permission.html#UPDATE_DEVICE_STATS)

Allows an application to update device statistics.

String

(<https://developer.android.com/reference/java/lang/String.html>)

USE_BIOMETRIC

(https://developer.android.com/reference/android/Manifest.permission.html#USE_BIOMETRIC)

Allows an app to use device supported biometric modalities.

String

(<https://developer.android.com/reference/java/lang/String.html>)

USE_FINGERPRINT

(https://developer.android.com/reference/android/Manifest.permission.html#USE_FINGERPRINT)

*This constant was deprecated in API level 28. Applications should request **USE_BIOMETRIC***

(https://developer.android.com/reference/android/Manifest.permission.html#USE_BIOMETRIC) instead

String

(<https://developer.android.com/reference/java/lang/String.html>)

USE_SIP

(https://developer.android.com/reference/android/Manifest.permission.html#USE_SIP)

Allows an application to use SIP service.

String

(<https://developer.android.com/reference/java/lang/String.html>)

VIBRATE

(<https://developer.android.com/reference/android/Manifest.permission.html#VIBRATE>)

Allows access to the vibrator.

String

(<https://developer.android.com/reference/java/lang/String.html>)

WAKE_LOCK

(https://developer.android.com/reference/android/Manifest.permission.html#WAKE_LOCK)

Allows using PowerManager WakeLocks to keep processor from sleeping or screen from dimming.

String

(<https://developer.android.com/reference/java/lang/String.html>)

WRITE_APN_SETTINGS

(https://developer.android.com/reference/android/Manifest.permission.html#WRITE_APN_SETTINGS)

Allows applications to write the apn settings.

String**WRITE_CALENDAR**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#WRITE_CALENDAR)

Allows an application to write the user's calendar data.

String **WRITE_CALL_LOG**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#WRITE_CALL_LOG)

Allows an application to write (but not read) the user's call log data.

String **WRITE_CONTACTS**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#WRITE_CONTACTS)

Allows an application to write the user's contacts data.

String **WRITE_EXTERNAL_STORAGE**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#WRITE_EXTERNAL_STORAGE)

Allows an application to write to external storage.

String **WRITE_GSERVICES**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#WRITE_GSERVICES)

Allows an application to modify the Google service map.

String **WRITE_SECURE_SETTINGS**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#WRITE_SECURE_SETTINGS)

Allows an application to read or write the secure system settings.

String **WRITE_SETTINGS**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#WRITE_SETTINGS)

Allows an application to read or write the system settings.

String **WRITE_SYNC_SETTINGS**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#WRITE_SYNC_SETTINGS)

Allows applications to write the sync settings.

String **WRITE_VOICEMAIL**

(<https://developer.android.com/reference/java/lang/String.html>) (https://developer.android.com/reference/android/Manifest.permission.html#WRITE_VOICEMAIL)

Allows an application to modify and remove existing voicemails in the system.

Public constructors

Manifest.permission

([https://developer.android.com/reference/android/Manifest.permission.html#Manifest.permission\(\)](https://developer.android.com/reference/android/Manifest.permission.html#Manifest.permission())) ()

Inherited methods

From class [java.lang.Object](https://developer.android.com/reference/java/lang/Object.html) (<https://developer.android.com/reference/java/lang/Object.html>)

[Object](https://developer.android.com/reference/java/lang/Object.html) (<https://developer.android.com/reference/java/lang/Object.html>)

clone

([https://developer.android.com/reference/java/lang/Object.html#clone\(\)](https://developer.android.com/reference/java/lang/Object.html#clone())) ()

Creates and returns a copy of this object.

boolean

equals

([Object](https://developer.android.com/reference/java/lang/Object.html#equals(java.lang.Object))) ([Object](https://developer.android.com/reference/java/lang/Object.html#equals(java.lang.Object))) ([Object](https://developer.android.com/reference/java/lang/Object.html#equals(java.lang.Object)))

Indicates whether this object is "equal to" another object.

void

finalize

([Object](https://developer.android.com/reference/java/lang/Object.html#finalize())) ([Object](https://developer.android.com/reference/java/lang/Object.html#finalize())) ()

Called by the garbage collector on an object when garbage collection determines that there are no more references to the object.

final Class ([Class](https://developer.android.com/reference/java/lang/Class.html)) ([Class](https://developer.android.com/reference/java/lang/Class.html)) <?>

getClass

([Class](https://developer.android.com/reference/java/lang/Class.html#getClass())) ([Class](https://developer.android.com/reference/java/lang/Class.html#getClass())) ([Class](https://developer.android.com/reference/java/lang/Class.html#getClass()))

	() Returns the run Object .
int	<u>hashCode</u> (https://developer.android.com/reference/java/lang/Object#hashCode()) () Returns a hash object.
final void	<u>notify</u> (https://developer.android.com/reference/java/lang/Object#notify()) () Wakes up a sir waiting on this
final void	<u>notifyAll</u> (https://developer.android.com/reference/java/lang/Object#notifyAll()) () Wakes up all th waiting on this
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)	<u>toString</u> (https://developer.android.com/reference/java/lang/Object#toString()) () Returns a strin the object.
final void	<u>wait</u> (https://developer.android.com/reference/java/lang/Object#wait(long,%20int)) (long milli Causes the cur until another th <u>notify()</u> .

([https://developer.java.com/javase/7/docs/api/java/lang/Object.html#wait\(\)](https://developer.java.com/javase/7/docs/api/java/lang/Object.html#wait()))
method or the
([https://developer.java.com/javase/7/docs/api/java/lang/Object.html#waitAll\(\)](https://developer.java.com/javase/7/docs/api/java/lang/Object.html#waitAll()))
method for this
other thread in
thread, or a cer
time has elaps

final void

wait
([https://developer.java.com/javase/7/docs/api/java/lang/Object.html#wait\(long\)](https://developer.java.com/javase/7/docs/api/java/lang/Object.html#wait(long)))
(**long milli**

Causes the cur
until either ano
the **notify()**.
([https://developer.java.com/javase/7/docs/api/java/lang/Object.html#wait\(\)](https://developer.java.com/javase/7/docs/api/java/lang/Object.html#wait()))
method or the
([https://developer.java.com/javase/7/docs/api/java/lang/Object.html#waitAll\(\)](https://developer.java.com/javase/7/docs/api/java/lang/Object.html#waitAll()))
method for this
specified amou
elapsed.

final void

wait
([https://deve
/reference/ja
ml#wait\(\)](https://developer.java.com/javase/7/docs/api/java/lang/Object.html#wait()))
()

Causes the ci
wait until ano
invokes the **n**
([https://deve
/reference/ja
ml#notify\(\)](https://deve
/reference/ja
ml#notify()))
method or the
([https://deve
/reference/ja
ml#notifyAll\(\)](https://deve
/reference/ja
ml#notifyAll()))
method for th

Constants

ACCEPT_HANDOVER

Added in API level 28

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows a calling app to continue a call which was started in another app. An example is a video calling app that wants to continue a voice call on the user's mobile network.

When the handover of a call from one app to another takes place, there are two devices which are involved in the handover; the initiating and receiving devices. The initiating device is where the request to handover the call was started, and the receiving device is where the handover request is confirmed by the other party.

This permission protects access to the `TelecomManager.acceptHandover(Uri, int, PhoneAccountHandle)`.

([https://developer.android.com/reference/android/telecom/TelecomManager.html#acceptHandover\(android.net.Uri,%20int,%20android.telecom.PhoneAccountHandle\)](https://developer.android.com/reference/android/telecom/TelecomManager.html#acceptHandover(android.net.Uri,%20int,%20android.telecom.PhoneAccountHandle)))

which the receiving side of the handover uses to accept a handover.

Protection level: dangerous

Constant Value: "android.permission.ACCEPT_HANDOVER"

ACCESS_CHECKIN_PROPERTIES

Added in API level 28

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows read/write access to the "properties" table in the checkin database, to change values that get uploaded.

Not for use by third-party applications.

Constant Value: "android.permission.ACCESS_CHECKIN_PROPERTIES"

ACCESS_COARSE_LOCATION

~~Added in API level 22~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an app to access approximate location. Alternatively, you might want

ACCESS_FINE_LOCATION

(https://developer.android.com/reference/android/Manifest.permission.html#ACCESS_FINE_LOCATION)

.

Protection level: dangerous

Constant Value: "android.permission.ACCESS_COARSE_LOCATION"

ACCESS_FINE_LOCATION

~~Added in API level 22~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an app to access precise location. Alternatively, you might want

ACCESS_COARSE_LOCATION

(https://developer.android.com/reference/android/Manifest.permission.html#ACCESS_COARSE_LOCATION)

.

Protection level: dangerous

Constant Value: "android.permission.ACCESS_FINE_LOCATION"

ACCESS_LOCATION_EXTRA_COMMANDS

~~Added in API level 22~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to access extra location provider commands.

Protection level: normal

Constant Value: "android.permission.ACCESS_LOCATION_EXTRA_COMMANDS"

ACCESS_NETWORK_STATE

Added in API Level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to access information about networks.

Protection level: normal

Constant Value: "android.permission.ACCESS_NETWORK_STATE"

ACCESS_NOTIFICATION_POLICY

Added in API Level 28

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Marker permission for applications that wish to access notification policy.

Protection level: normal

Constant Value: "android.permission.ACCESS_NOTIFICATION_POLICY"

ACCESS_WIFI_STATE

Added in API Level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to access information about Wi-Fi networks.

Protection level: normal

Constant Value: "android.permission.ACCESS_WIFI_STATE"

ACCOUNT_MANAGER

Added in API Level 4

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to call into AccountAuthenticators.

Not for use by third-party applications.

Constant Value: "android.permission.ACCOUNT_MANAGER"

ADD_VOICEMAIL

added in API Level 14

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to add voicemails into the system.

Protection level: dangerous

Constant Value: "com.android.voicemail.permission.ADD_VOICEMAIL"

ANSWER_PHONE_CALLS

added in API Level 26

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows the app to answer an incoming phone call.

Protection level: dangerous

Constant Value: "android.permission.ANSWER_PHONE_CALLS"

BATTERY_STATS

added in API Level 11

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to collect battery statistics

Constant Value: "android.permission.BATTERY_STATS"

BIND_ACCESSIBILITY_SERVICE

added in API Level 16

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by an **AccessibilityService**

(<https://developer.android.com/reference/android/accessibilityservice/AccessibilityService.html>), to ensure that only the system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_ACCESSIBILITY_SERVICE"

BIND_APPWIDGET

added In API level 3

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to tell the AppWidget service which application can access AppWidget's data. The normal user flow is that a user picks an AppWidget to go into a particular host, thereby giving that host application access to the private data from the AppWidget app. An application that has this permission should honor that contract.

Not for use by third-party applications.

Constant Value: "android.permission.BIND_APPWIDGET"

BIND_AUTOFILL_SERVICE

added In API level 26

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a **AutofillService**

(<https://developer.android.com/reference/android/service/autofill/AutofillService.html>), to ensure that only the system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_AUTOFILL_SERVICE"

BIND_CARRIER_MESSAGING_SERVICE

added In API level 22

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

This constant was deprecated in API level 23.

Use **BIND_CARRIER_SERVICES**

(https://developer.android.com/reference/android/Manifest.permission.html#BIND_CARRIER_SERVICES)

instead

Constant Value: "android.permission.BIND_CARRIER_MESSAGING_SERVICE"

BIND_CARRIER_SERVICES

Added In API Level 23

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

The system process that is allowed to bind to services in carrier apps will have this permission. Carrier apps should use this permission to protect their services that only the system is allowed to bind to.

Protection level: signature|privileged

Constant Value: "android.permission.BIND_CARRIER_SERVICES"

BIND_CHOOSER_TARGET_SERVICE

Added In API Level 23

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a **ChooserTargetService**

(<https://developer.android.com/reference/android/service/chooser/ChooserTargetService.html>), to ensure that only the system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_CHOOSER_TARGET_SERVICE"

BIND_CONDITION_PROVIDER_SERVICE

Added In API Level 24

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a **ConditionProviderService**

(<https://developer.android.com/reference/android/service/notification/ConditionProviderService.html>), to ensure that only the system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_CONDITION_PROVIDER_SERVICE"

BIND_DEVICE_ADMIN

Added In API Level 23

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

public static final String (<https://developer.android.com/reference/java/lang/String.html>) BIND_DEVICE_ADMIN

Must be required by device administration receiver, to ensure that only the system can interact with it.

Protection level: signature

Constant Value: "android.permission.BIND_DEVICE_ADMIN"

BIND_DREAM_SERVICE

~~added in API level 17~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by an DreamService

(<https://developer.android.com/reference/android/service/dreams/DreamService.html>), to ensure that only the system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_DREAM_SERVICE"

BIND_INCALL_SERVICE

~~added in API level 13~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a InCallService

(<https://developer.android.com/reference/android/telecom/InCallService.html>), to ensure that only the system can bind to it.

Protection level: signature|privileged

Constant Value: "android.permission.BIND_INCALL_SERVICE"

BIND_INPUT_METHOD

~~added in API level 3~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by an **InputMethodService**

(<https://developer.android.com/reference/android/inputmethodservice/InputMethodService.html>), to ensure that only the system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_INPUT_METHOD"

Added in API Level 23 **BIND_MIDI_DEVICE_SERVICE**

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by an **MidiDeviceService**

(<https://developer.android.com/reference/android/media/midi/MidiDeviceService.html>), to ensure that only the system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_MIDI_DEVICE_SERVICE"

Added in API Level 24 **BIND_NFC_SERVICE**

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a **HostApuService**

(<https://developer.android.com/reference/android/nfc/cardemulation/HostApuService.html>) or

OffHostApuService

(<https://developer.android.com/reference/android/nfc/cardemulation/OffHostApuService.html>) to ensure that only the system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_NFC_SERVICE"

Added in API Level 26 **BIND_NOTIFICATION_LISTENER_SERVICE**

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by an **NotificationListenerService**

(<https://developer.android.com/reference/android/service/notification/NotificationListenerService.html>), to ensure that only the system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_NOTIFICATION_LISTENER_SERVICE"

BIND_PRINT_SERVICE

Added in API Level 19

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a **PrintService**

(<https://developer.android.com/reference/android/printservice/PrintService.html>), to ensure that only the system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_PRINT_SERVICE"

BIND_QUICK_SETTINGS_TILE

Added in API Level 24

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to bind to third party quick settings tiles.

Should only be requested by the System, should be required by TileService declarations.

Constant Value: "android.permission.BIND_QUICK_SETTINGS_TILE"

BIND_REMOTEVIEWS

Added in API Level 11

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a **RemoteViewsService**

(<https://developer.android.com/reference/android/widget/RemoteViewsService.html>), to ensure that only the system can bind to it.

Constant Value: "android.permission.BIND_REMOTEVIEWS"

added In API Level 24 **BIND_SCREENING_SERVICE**

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a **CallScreeningService**

(<https://developer.android.com/reference/android/telecom/CallScreeningService.html>), to ensure that only the system can bind to it.

Protection level: signature|privileged

Constant Value: "android.permission.BIND_SCREENING_SERVICE"

added In API Level 29 **BIND_TELECOM_CONNECTION_SERVICE**

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a **ConnectionService**

(<https://developer.android.com/reference/android/telecom/ConnectionService.html>), to ensure that only the system can bind to it.

Protection level: signature|privileged

Constant Value: "android.permission.BIND_TELECOM_CONNECTION_SERVICE"

added In API Level 34 **BIND_TEXT_SERVICE**

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a TextService (e.g. SpellCheckerService) to ensure that only the system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_TEXT_SERVICE"

added In API Level 21 **BIND_TV_INPUT**

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a **TvInputService**

(<https://developer.android.com/reference/android/media/tv/TvInputService.html>) to ensure that only the system can bind to it.

Protection level: signature|privileged

Constant Value: "android.permission.BIND_TV_INPUT"

BIND_VISUAL_VOICEMAIL_SERVICE

~~Added in API level 26~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a link **VisualVoicemailService**

(<https://developer.android.com/reference/android/telephony/VisualVoicemailService.html>) to ensure that only the system can bind to it.

Protection level: signature|privileged

Constant Value: "android.permission.BIND_VISUAL_VOICEMAIL_SERVICE"

BIND_VOICE_INTERACTION

~~Added in API level 21~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a **VoiceInteractionService**

(<https://developer.android.com/reference/android/service/voice/VoiceInteractionService.html>), to ensure that only the system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_VOICE_INTERACTION"

BIND_VPN_SERVICE

~~Added in API level 24~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a **VpnService**

(<https://developer.android.com/reference/android/net/VpnService.html>), to ensure that only the

system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_VPN_SERVICE"

BIND_VR_LISTENER_SERVICE

~~Added in API Level 24~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by an **VrListenerService**

(<https://developer.android.com/reference/android/service/vr/VrListenerService.html>), to ensure that only the system can bind to it.

Protection level: signature

Constant Value: "android.permission.BIND_VR_LISTENER_SERVICE"

BIND_WALLPAPER

~~Added in API Level 8~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Must be required by a **WallpaperService**

(<https://developer.android.com/reference/android/service/wallpaper/WallpaperService.html>), to ensure that only the system can bind to it.

Protection level: signature|privileged

Constant Value: "android.permission.BIND_WALLPAPER"

BLUETOOTH

~~Added in API Level 11~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to connect to paired bluetooth devices.

Protection level: normal

Constant Value: "android.permission.BLUETOOTH"

BLUETOOTH_ADMIN

~~Added in API Level 19~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to discover and pair bluetooth devices.

Protection level: normal

Constant Value: "android.permission.BLUETOOTH_ADMIN"

BLUETOOTH_PRIVILEGED

~~Added in API Level 19~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to pair bluetooth devices without user interaction, and to allow or disallow phonebook access or message access. This is not available to third party applications.

Constant Value: "android.permission.BLUETOOTH_PRIVILEGED"

BODY_SENSORS

~~Added in API Level 20~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to access data from sensors that the user uses to measure what is happening inside his/her body, such as heart rate.

Protection level: dangerous

Constant Value: "android.permission.BODY_SENSORS"

BROADCAST_PACKAGE_REMOVED

~~Added in API Level 11~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to broadcast a notification that an application package has been removed.

Not for use by third-party applications.

Constant Value: "android.permission.BROADCAST_PACKAGE_REMOVED"

BROADCAST_SMS

Added in API level 2

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to broadcast an SMS receipt notification.

Not for use by third-party applications.

Constant Value: "android.permission.BROADCAST_SMS"

BROADCAST_STICKY

Added in API level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to broadcast sticky intents. These are broadcasts whose data is held by the system after being finished, so that clients can quickly retrieve that data without having to wait for the next broadcast.

Protection level: normal

Constant Value: "android.permission.BROADCAST_STICKY"

BROADCAST_WAP_PUSH

Added in API level 2

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to broadcast a WAP PUSH receipt notification.

Not for use by third-party applications.

Constant Value: "android.permission.BROADCAST_WAP_PUSH"

CALL_PHONE

~~public static~~ ~~final~~ String (<https://developer.android.com/reference/java/lang/String.html>) CALL_PHONE (<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)
Allows an application to initiate a phone call without going through the Dialer user interface for the user to confirm the call.

Protection level: dangerous

Constant Value: "android.permission.CALL_PHONE"

~~added in API level 1~~ CALL_PRIVILEGED

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to call any phone number, including emergency numbers, without going through the Dialer user interface for the user to confirm the call being placed.

Not for use by third-party applications.

Constant Value: "android.permission.CALL_PRIVILEGED"

~~added in API level 1~~ CAMERA

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Required to be able to access the camera device.

This will automatically enforce the }

(<https://developer.android.com/guide/topics/manifest/uses-feature-element.html>) manifest element for *all* camera features. If you do not require all camera features or can properly operate if a camera is not available, then you must modify your manifest as appropriate in order to install on devices that don't support all camera features.

Protection level: dangerous

Constant Value: "android.permission.CAMERA"

~~added in API level 19~~ CAPTURE_AUDIO_OUTPUT

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to capture audio output.

Not for use by third-party applications.

Constant Value: "android.permission.CAPTURE_AUDIO_OUTPUT"

CAPTURE_SECURE_VIDEO_OUTPUT

added in API Level 19

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to capture secure video output.

Not for use by third-party applications.

Constant Value: "android.permission.CAPTURE_SECURE_VIDEO_OUTPUT"

CAPTURE_VIDEO_OUTPUT

added in API Level 19

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to capture video output.

Not for use by third-party applications.

Constant Value: "android.permission.CAPTURE_VIDEO_OUTPUT"

CHANGE_COMPONENT_ENABLED_STATE

added in API Level 19

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to change whether an application component (other than its own) is enabled or not.

Not for use by third-party applications.

Constant Value: "android.permission.CHANGE_COMPONENT_ENABLED_STATE"

CHANGE_CONFIGURATION

Added in API Level 11

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to modify the current configuration, such as locale.

Constant Value: "android.permission.CHANGE_CONFIGURATION"

CHANGE_NETWORK_STATE

Added in API Level 11

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to change network connectivity state.

Protection level: normal

Constant Value: "android.permission.CHANGE_NETWORK_STATE"

CHANGE_WIFI_MULTICAST_STATE

Added in API Level 11

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to enter Wi-Fi Multicast mode.

Protection level: normal

Constant Value: "android.permission.CHANGE_WIFI_MULTICAST_STATE"

CHANGE_WIFI_STATE

Added in API Level 11

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to change Wi-Fi connectivity state.

Protection level: normal

Constant Value: "android.permission.CHANGE_WIFI_STATE"

CLEAR_APP_CACHE

added in API level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to clear the caches of all installed applications on the device.

Protection level: signature|privileged

Constant Value: "android.permission.CLEAR_APP_CACHE"

CONTROL_LOCATION_UPDATES

added in API level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows enabling/disabling location update notifications from the radio.

Not for use by third-party applications.

Constant Value: "android.permission.CONTROL_LOCATION_UPDATES"

DELETE_CACHE_FILES

added in API level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Old permission for deleting an app's cache files, no longer used, but signals for us to quietly ignore calls instead of throwing an exception.

Constant Value: "android.permission.DELETE_CACHE_FILES"

DELETE_PACKAGES

added in API level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to delete packages.

Not for use by third-party applications.

Starting in **Build.VERSION_CODES.N**

(https://developer.android.com/reference/android/os/Build.VERSION_CODES.html#N), user

confirmation is requested when the application deleting the package is not the same application that installed the package.

Constant Value: "android.permission.DELETE_PACKAGES"

DIAGNOSTIC

added in API level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to RW to diagnostic resources.

Not for use by third-party applications.

Constant Value: "android.permission.DIAGNOSTIC"

DISABLE_KEYGUARD

added in API level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to disable the keyguard if it is not secure.

Protection level: normal

Constant Value: "android.permission.DISABLE_KEYGUARD"

DUMP

added in API level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to retrieve state dump information from system services.

Not for use by third-party applications.

Constant Value: "android.permission.DUMP"

EXPAND_STATUS_BAR

added in API level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

public static final String (<https://developer.android.com/reference/java/lang/String.html>) EXI

Allows an application to expand or collapse the status bar.

Protection level: normal

Constant Value: "android.permission.EXPAND_STATUS_BAR"

FACTORY_TEST

~~added in API level 11~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Run as a manufacturer test application, running as the root user. Only available when the device is running in manufacturer test mode.

Not for use by third-party applications.

Constant Value: "android.permission.FACTORY_TEST"

FOREGROUND_SERVICE

~~added in API level 18~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows a regular application to use **Service.startForeground**

([https://developer.android.com/reference/android/app/Service.html#startForeground\(int,%20android.a
pp.Notification\)](https://developer.android.com/reference/android/app/Service.html#startForeground(int,%20android.app.Notification)))

.

Protection level: normal

Constant Value: "android.permission.FOREGROUND_SERVICE"

GET_ACCOUNTS

~~added in API level 11~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows access to the list of accounts in the Accounts Service.

Note: Beginning with Android 6.0 (API level 23), if an app shares the signature of the authenticator that manages an account, it does not need **"GET_ACCOUNTS"** permission to read information about that account. On Android 5.1 and lower, all apps need **"GET_ACCOUNTS"** permission to read information about any account.

Protection level: dangerous

Constant Value: "android.permission.GET_ACCOUNTS"

GET_ACCOUNTS_PRIVILEGED

~~Added in API level 23~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows access to the list of accounts in the Accounts Service.

Constant Value: "android.permission.GET_ACCOUNTS_PRIVILEGED"

GET_PACKAGE_SIZE

~~Added in API level 1~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to find out the space used by any package.

Protection level: normal

Constant Value: "android.permission.GET_PACKAGE_SIZE"

GET_TASKS

~~Added in API level 1~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

This constant was deprecated in API level 21.

No longer enforced.

Constant Value: "android.permission.GET_TASKS"

GLOBAL_SEARCH

added in API Level 4

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

This permission can be used on content providers to allow the global search system to access their data. Typically it used when the provider has some permissions protecting it (which global search would not be expected to hold), and added as a read-only permission to the path in the provider where global search queries are performed. This permission can not be held by regular applications; it is used by applications to protect themselves from everyone else besides global search.

Constant Value: "android.permission.GLOBAL_SEARCH"

INSTALL_LOCATION_PROVIDER

added in API Level 4

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to install a location provider into the Location Manager.

Not for use by third-party applications.

Constant Value: "android.permission.INSTALL_LOCATION_PROVIDER"

INSTALL_PACKAGES

added in API Level 4

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to install packages.

Not for use by third-party applications.

Constant Value: "android.permission.INSTALL_PACKAGES"

INSTALL_SHORTCUT

added in API Level 10

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to install a shortcut in Launcher.

In Android O (API level 26) and higher, the **INSTALL_SHORTCUT** broadcast no longer has any effect on your app because it's a private, implicit broadcast. Instead, you should create an app shortcut by using the [requestPinShortcut\(\)](#).

([https://developer.android.com/reference/android/content/pm/ShortcutManager.html#requestPinShortcut\(android.content.pm.ShortcutInfo,%20android.content.IntentSender\)](https://developer.android.com/reference/android/content/pm/ShortcutManager.html#requestPinShortcut(android.content.pm.ShortcutInfo,%20android.content.IntentSender)))

method from the [ShortcutManager](#)

(<https://developer.android.com/reference/android/content/pm/ShortcutManager.html>) class.

Protection level: normal

Constant Value: "com.android.launcher.permission.INSTALL_SHORTCUT"

INSTANT_APP_FOREGROUND_SERVICE

added in API level 26

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an instant app to create foreground services.

Constant Value: "android.permission.INSTANT_APP_FOREGROUND_SERVICE"

INTERNET

added in API level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to open network sockets.

Protection level: normal

Constant Value: "android.permission.INTERNET"

KILL_BACKGROUND_PROCESSES

added in API level 9

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to call [ActivityManager.killBackgroundProcesses\(String\)](#).

([https://developer.android.com/reference/android/app/ActivityManager.html#killBackgroundProcesses\(java.lang.String\)](https://developer.android.com/reference/android/app/ActivityManager.html#killBackgroundProcesses(java.lang.String)))

.

Protection level: normal

Constant Value: "android.permission.KILL_BACKGROUND_PROCESSES"

~~Added in API Level 16~~ LOCATION_HARDWARE

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to use location features in hardware, such as the geofencing api.

Not for use by third-party applications.

Constant Value: "android.permission.LOCATION_HARDWARE"

~~Added in API Level 16~~ MANAGE_DOCUMENTS

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to manage access to documents, usually as part of a document picker.

This permission should *only* be requested by the platform document management app. This permission cannot be granted to third-party apps.

Protection level: signature

Constant Value: "android.permission.MANAGE_DOCUMENTS"

~~Added in API Level 26~~ MANAGE_OWN_CALLS

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows a calling application which manages its own calls through the self-managed ConnectionService

(<https://developer.android.com/reference/android/telecom/ConnectionService.html>) APIs. See {@link android.telecom.PhoneAccount#CAPABILITY_SELF_MANAGED} for more information on the self-managed ConnectionService APIs.

Protection level: normal

Constant Value: "android.permission.MANAGE_OWN_CALLS"

MANAGE_OWN_CALLS

~~Added in API Level 19~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Not for use by third-party applications.

Constant Value: "android.permission.MANAGE_OWN_CALLS"

MEDIA_CONTENT_CONTROL

~~Added in API Level 19~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to know what content is playing and control its playback.

Not for use by third-party applications due to privacy of media consumption

Constant Value: "android.permission.MEDIA_CONTENT_CONTROL"

MODIFY_AUDIO_SETTINGS

~~Added in API Level 19~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to modify global audio settings.

Protection level: normal

Constant Value: "android.permission.MODIFY_AUDIO_SETTINGS"

MODIFY_PHONE_STATE

~~Added in API Level 19~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows modification of the telephony state - power on, mmi, etc. Does not include placing calls.

Not for use by third-party applications.

Constant Value: "android.permission.MODIFY_PHONE_STATE"

MOUNT_FORMAT_FILESYSTEMS

Added in API level 3

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows formatting file systems for removable storage.

Not for use by third-party applications.

Constant Value: "android.permission.MOUNT_FORMAT_FILESYSTEMS"

MOUNT_UNMOUNT_FILESYSTEMS

Added in API level 3

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows mounting and unmounting file systems for removable storage.

Not for use by third-party applications.

Constant Value: "android.permission.MOUNT_UNMOUNT_FILESYSTEMS"

NFC

Added in API level 9

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to perform I/O operations over NFC.

Protection level: normal

Constant Value: "android.permission.NFC"

NFC_TRANSACTION_EVENT

Added in API level 23

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to receive NFC transaction events.

Protection level: normal

Constant Value: "android.permission.NFC_TRANSACTION_EVENT"

PACKAGE_USAGE_STATS

added in API level 23

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to collect component usage statistics

Declaring the permission implies intention to use the API and the user of the device can grant permission through the Settings application.

Constant Value: "android.permission.PACKAGE_USAGE_STATS"

PERSISTENT_ACTIVITY

added in API level 11

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

This constant was deprecated in API level 9.

This functionality will be removed in the future; please do not use. Allow an application to make its activities persistent.

Constant Value: "android.permission.PERSISTENT_ACTIVITY"

PROCESS_OUTGOING_CALLS

added in API level 11

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to see the number being dialed during an outgoing call with the option to redirect the call to a different number or abort the call altogether.

Protection level: dangerous

Constant Value: "android.permission.PROCESS_OUTGOING_CALLS"

READ_CALENDAR

added in API level 11

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to read the user's calendar data.

Protection level: dangerous

Constant Value: "android.permission.READ_CALENDAR"

READ_CALL_LOG

added in API level 16

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to read the user's call log.

Note: If your app uses the [READ_CONTACTS](#)

(https://developer.android.com/reference/android/Manifest.permission.html#READ_CONTACTS)

permission and *both* your [minSdkVersion](#)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#min>) and

[targetSdkVersion](#)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target>) values are set to

15 or lower, the system implicitly grants your app this permission. If you don't need this permission, be

sure your [targetSdkVersion](#)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target>) is 16 or higher.

Protection level: dangerous

Constant Value: "android.permission.READ_CALL_LOG"

READ_CONTACTS

added in API level 7

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to read the user's contacts data.

Protection level: dangerous

Constant Value: "android.permission.READ_CONTACTS"

READ_EXTERNAL_STORAGE

added in API level 19

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to read from external storage.

Any app that declares the WRITE_EXTERNAL_STORAGE

(https://developer.android.com/reference/android/Manifest.permission.html#WRITE_EXTERNAL_STORAGE)

permission is implicitly granted this permission.

This permission is enforced starting in API level 19. Before API level 19, this permission is not enforced and all apps still have access to read from external storage. You can test your app with the permission enforced by enabling *Protect USB storage* under Developer options in the Settings app on a device running Android 4.1 or higher.

Also starting in API level 19, this permission is *not* required to read/write files in your application-specific directories returned by `Context.getExternalFilesDir(String)`.

([https://developer.android.com/reference/android/content/Context.html#getExternalFilesDir\(java.lang.String\)](https://developer.android.com/reference/android/content/Context.html#getExternalFilesDir(java.lang.String)))

and `Context.getExternalCacheDir()`.

([https://developer.android.com/reference/android/content/Context.html#getExternalCacheDir\(\)](https://developer.android.com/reference/android/content/Context.html#getExternalCacheDir())).

Note: If *both* your `minSdkVersion`

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#min>) and

`targetSdkVersion`

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target>) values are set to

3 or lower, the system implicitly grants your app this permission. If you don't need this permission, be sure your `targetSdkVersion`

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target>) is 4 or higher.

Protection level: dangerous

Constant Value: "android.permission.READ_EXTERNAL_STORAGE"

READ_FRAME_BUFFER

added in API level 11

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to take screen shots and more generally get access to the frame buffer data.

Not for use by third-party applications.

Constant Value: "android.permission.READ_FRAME_BUFFER"

READ_INPUT_STATE

~~added in API level 11~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

This constant was deprecated in API level 16.

The API that used this permission has been removed.

Allows an application to retrieve the current state of keys and switches.

Not for use by third-party applications.

Constant Value: "android.permission.READ_INPUT_STATE"

READ_LOGS

~~added in API level 1~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to read the low-level system log files.

Not for use by third-party applications, because Log entries can contain the user's private information.

Constant Value: "android.permission.READ_LOGS"

READ_PHONE_NUMBERS

~~added in API level 26~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows read access to the device's phone number(s). This is a subset of the capabilities granted by READ_PHONE_STATE

(https://developer.android.com/reference/android/Manifest.permission.html#READ_PHONE_STATE) but is exposed to instant applications.

Protection level: dangerous

Constant Value: "android.permission.READ_PHONE_NUMBERS"

READ_PHONE_STATE

~~Added in API level 1~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows read only access to phone state, including the phone number of the device, current cellular network information, the status of any ongoing calls, and a list of any

PhoneAccount (<https://developer.android.com/reference/android/telecom/PhoneAccount.html>)s registered on the device.

Note: If both your [minSdkVersion](#)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#min>) and

[targetSdkVersion](#)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target>) values are set to 3 or lower, the system implicitly grants your app this permission. If you don't need this permission, be sure your [targetSdkVersion](#)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target>) is 4 or higher.

Protection level: dangerous

Constant Value: "android.permission.READ_PHONE_STATE"

READ_SMS

~~Added in API level 1~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to read SMS messages.

Protection level: dangerous

Constant Value: "android.permission.READ_SMS"

READ_SYNC_SETTINGS

~~Added in API level 1~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to read the sync settings.

Protection level: normal

Constant Value: "android.permission.READ_SYNC_SETTINGS"

READ_SYNC_STATS

~~added in API level 1~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to read the sync stats.

Protection level: normal

Constant Value: "android.permission.READ_SYNC_STATS"

READ_VOICEMAIL

~~added in API level 2~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to read voicemails in the system.

Protection level: signature|privileged

Constant Value: "com.android.voicemail.permission.READ_VOICEMAIL"

REBOOT

~~added in API level 1~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Required to be able to reboot the device.

Not for use by third-party applications.

Constant Value: "android.permission.REBOOT"

RECEIVE_BOOT_COMPLETED

~~Added in API level 1~~ `public static final String` (<https://developer.android.com/reference/java/lang/String.html>) `RECEIVE_BOOT_COMPLETED` (<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to receive the `Intent.ACTION_BOOT_COMPLETED`

(https://developer.android.com/reference/android/content/Intent.html#ACTION_BOOT_COMPLETED)

that is broadcast after the system finishes booting. If you don't request this permission, you will not receive the broadcast at that time. Though holding this permission does not have any security implications, it can have a negative impact on the user experience by increasing the amount of time it takes the system to start and allowing applications to have themselves running without the user being aware of them. As such, you must explicitly declare your use of this facility to make that visible to the user.

Protection level: normal

Constant Value: "android.permission.RECEIVE_BOOT_COMPLETED"

~~Added in API level 1~~ `RECEIVE_MMS`

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to monitor incoming MMS messages.

Protection level: dangerous

Constant Value: "android.permission.RECEIVE_MMS"

~~Added in API level 1~~ `RECEIVE_SMS`

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to receive SMS messages.

Protection level: dangerous

Constant Value: "android.permission.RECEIVE_SMS"

~~Added in API level 1~~ `RECEIVE_WAP_PUSH`

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to receive WAP push messages.

Protection level: dangerous

Constant Value: "android.permission.RECEIVE_WAP_PUSH"

RECORD_AUDIO

~~added in API level 1~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to record audio.

Protection level: dangerous

Constant Value: "android.permission.RECORD_AUDIO"

REORDER_TASKS

~~added in API level 26~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to change the Z-order of tasks.

Protection level: normal

Constant Value: "android.permission.REORDER_TASKS"

REQUEST_COMPANION_RUN_IN_BACKGROUND

~~added in API level 26~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows a companion app to run in the background.

Protection level: normal

Constant Value: "android.permission.REQUEST_COMPANION_RUN_IN_BACKGROUND"

REQUEST_COMPANION_USE_DATA_IN_BACKGROUND

~~added in API level 26~~
~~public static final String~~ (<https://developer.android.com/reference/java/lang/String.html>) RE(
(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)
Allows a companion app to use data in the background.

Protection level: normal

Constant Value:

"android.permission.REQUEST_COMPANION_USE_DATA_IN_BACKGROUND"

~~added in API level 26~~ **REQUEST_DELETE_PACKAGES**

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to request deleting packages. Apps targeting APIs

Build.VERSION_CODES.P

(https://developer.android.com/reference/android/os/Build.VERSION_CODES.html#P) or greater

must hold this permission in order to use **Intent.ACTION_UNINSTALL_PACKAGE**

(https://developer.android.com/reference/android/content/Intent.html#ACTION_UNINSTALL_PACKAGE
)

or **PackageInstaller.uninstall(VersionedPackage, IntentSender)**

([https://developer.android.com/reference/android/content/pm/PackageInstaller.html#uninstall\(android.content.pm.VersionedPackage,%20android.content.IntentSender\)](https://developer.android.com/reference/android/content/pm/PackageInstaller.html#uninstall(android.content.pm.VersionedPackage,%20android.content.IntentSender)))

.

Protection level: normal

Constant Value: "android.permission.REQUEST_DELETE_PACKAGES"

~~added in API level 26~~ **REQUEST_IGNORE_BATTERY_OPTIMIZATIONS**

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Permission an application must hold in order to use

Settings.ACTION_REQUEST_IGNORE_BATTERY_OPTIMIZATIONS

(https://developer.android.com/reference/android/provider/Settings.html#ACTION_REQUEST_IGNORE_BATTERY_OPTIMIZATIONS)

. This is a normal permission: an app requesting it will always be granted the permission, without the user needing to approve or see it.

Constant Value: "android.permission.REQUEST_IGNORE_BATTERY_OPTIMIZATIONS"

REQUEST_INSTALL_PACKAGES

~~added in API level 23~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to request installing packages. Apps targeting APIs greater than 25 must hold this permission in order to use **Intent.ACTION_INSTALL_PACKAGE**

(https://developer.android.com/reference/android/content/Intent.html#ACTION_INSTALL_PACKAGE).

Protection level: signature

Constant Value: "android.permission.REQUEST_INSTALL_PACKAGES"

RESTART_PACKAGES

~~added in API level 4~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

This constant was deprecated in API level 8.

The **ActivityManager.restartPackage(String)**.

([https://developer.android.com/reference/android/app/ActivityManager.html#restartPackage\(java.lang.String\)](https://developer.android.com/reference/android/app/ActivityManager.html#restartPackage(java.lang.String)))

API is no longer supported.

Constant Value: "android.permission.RESTART_PACKAGES"

SEND_RESPOND_VIA_MESSAGE

~~added in API level 10~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application (Phone) to send a request to other applications to handle the respond-via-message action during incoming calls.

Not for use by third-party applications.

Constant Value: "android.permission.SEND_RESPOND_VIA_MESSAGE"

SEND_SMS

~~added in API level 1~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

public static final String (<https://developer.android.com/reference/java/lang/String.html>) SEND_SMS

Allows an application to send SMS messages.

Protection level: dangerous

Constant Value: "android.permission.SEND_SMS"

SET_ALARM

Added in API level 9

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to broadcast an Intent to set an alarm for the user.

Protection level: normal

Constant Value: "com.android.alarm.permission.SET_ALARM"

SET_ALWAYS_FINISH

Added in API level 9

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to control whether activities are immediately finished when put in the background.

Not for use by third-party applications.

Constant Value: "android.permission.SET_ALWAYS_FINISH"

SET_ANIMATION_SCALE

Added in API level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Modify the global animation scaling factor.

Not for use by third-party applications.

Constant Value: "android.permission.SET_ANIMATION_SCALE"

SET_DEBUG_APP

~~added in API level 1~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Configure an application for debugging.

Not for use by third-party applications.

Constant Value: "android.permission.SET_DEBUG_APP"

SET_PREFERRED_APPLICATIONS

~~added in API level~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

This constant was deprecated in API level 7.

No longer useful, see [PackageManager.addPackageToPreferred\(String\)](https://developer.android.com/reference/android/content/pm/PackageManager.html#addPackageToPreferred(java.lang.String)).

([https://developer.android.com/reference/android/content/pm/PackageManager.html#addPackageToPreferred\(java.lang.String\)](https://developer.android.com/reference/android/content/pm/PackageManager.html#addPackageToPreferred(java.lang.String)))

for details.

Constant Value: "android.permission.SET_PREFERRED_APPLICATIONS"

SET_PROCESS_LIMIT

~~added in API level 5~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to set the maximum number of (not needed) application processes that can be running.

Not for use by third-party applications.

Constant Value: "android.permission.SET_PROCESS_LIMIT"

SET_TIME

~~added in API level 8~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to set the system time.

Not for use by third-party applications.

Constant Value: "android.permission.SET_TIME"

SET_TIME_ZONE

added in API level 7

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to set the system time zone.

Not for use by third-party applications.

Constant Value: "android.permission.SET_TIME_ZONE"

SET_WALLPAPER

added in API level 7

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to set the wallpaper.

Protection level: normal

Constant Value: "android.permission.SET_WALLPAPER"

SET_WALLPAPER_HINTS

added in API level 7

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to set the wallpaper hints.

Protection level: normal

Constant Value: "android.permission.SET_WALLPAPER_HINTS"

SIGNAL_PERSISTENT_PROCESSES

~~Added in API level 1~~ `final String` (<https://developer.android.com/reference/java/lang/String.html>) `SIGNAL_PERSISTENT_PROCESSES` (<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)
Allow an application to request that a signal be sent to all persistent processes.

Not for use by third-party applications.

Constant Value: "android.permission.SIGNAL_PERSISTENT_PROCESSES"

~~Added in API level 1~~ STATUS_BAR

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to open, close, or disable the status bar and its icons.

Not for use by third-party applications.

Constant Value: "android.permission.STATUS_BAR"

~~Added in API level 1~~ SYSTEM_ALERT_WINDOW

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an app to create windows using the type

`WindowManager.LayoutParams.TYPE_APPLICATION_OVERLAY`

(https://developer.android.com/reference/android/view/WindowManager.LayoutParams.html#TYPE_APPLICATION_OVERLAY)

, shown on top of all other apps. Very few apps should use this permission; these windows are intended for system-level interaction with the user.

Note: If the app targets API level 23 or higher, the app user must explicitly grant this permission to the app through a permission management screen. The app requests the user's approval by sending an intent with action **`Settings.ACTION_MANAGE_OVERLAY_PERMISSION`**

(https://developer.android.com/reference/android/provider/Settings.html#ACTION_MANAGE_OVERLAY_PERMISSION)

. The app can check whether it has this authorization by calling **`Settings.canDrawOverlays()`**

([https://developer.android.com/reference/android/provider/Settings.html#canDrawOverlays\(android.content.Context\)](https://developer.android.com/reference/android/provider/Settings.html#canDrawOverlays(android.content.Context)))

.

Protection level: signature

Constant Value: "android.permission.SYSTEM_ALERT_WINDOW"

TRANSMIT_IR

added in API level 18

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows using the device's IR transmitter, if available.

Protection level: normal

Constant Value: "android.permission.TRANSMIT_IR"

UNINSTALL_SHORTCUT

added in API level 18

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

This permission is no longer supported.

Constant Value: "com.android.launcher.permission.UNINSTALL_SHORTCUT"

UPDATE_DEVICE_STATS

added in API level 24

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to update device statistics.

Not for use by third-party applications.

Constant Value: "android.permission.UPDATE_DEVICE_STATS"

USE_BIOMETRIC

added in API level 28

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an app to use device supported biometric modalities.

Protection level: normal

Constant Value: "android.permission.USE_BIOMETRIC"

USE_FINGERPRINT

~~added in API level 28~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

This constant was deprecated in API level 28.

Applications should request **USE_BIOMETRIC**

(https://developer.android.com/reference/android/Manifest.permission.html#USE_BIOMETRIC) instead

Allows an app to use fingerprint hardware.

Protection level: normal

Constant Value: "android.permission.USE_FINGERPRINT"

USE_SIP

~~added in API level 9~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to use SIP service.

Protection level: dangerous

Constant Value: "android.permission.USE_SIP"

VIBRATE

~~added in API level 1~~

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows access to the vibrator.

Protection level: normal

Constant Value: "android.permission.VIBRATE"

WAKE_LOCK

added in API Level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows using PowerManager WakeLocks to keep processor from sleeping or screen from dimming.

Protection level: normal

Constant Value: "android.permission.WAKE_LOCK"

WRITE_APN_SETTINGS

added in API Level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to write the apn settings.

Not for use by third-party applications.

Constant Value: "android.permission.WRITE_APN_SETTINGS"

WRITE_CALENDAR

added in API Level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to write the user's calendar data.

Protection level: dangerous

Constant Value: "android.permission.WRITE_CALENDAR"

WRITE_CALL_LOG

added in API Level 16

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to write (but not read) the user's call log data.

Note: If your app uses the [WRITE_CONTACTS](https://developer.android.com/reference/android/Manifest.permission.html#WRITE_CONTACTS)

(https://developer.android.com/reference/android/Manifest.permission.html#WRITE_CONTACTS)

permission and *both* your [minSdkVersion](https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#min)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#min>) and

[targetSdkVersion](https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target>) values are set to

15 or lower, the system implicitly grants your app this permission. If you don't need this permission, be

sure your [targetSdkVersion](https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target>) is 16 or higher.

Protection level: dangerous

Constant Value: "android.permission.WRITE_CALL_LOG"

WRITE_CONTACTS

Added in API Level 1

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to write the user's contacts data.

Protection level: dangerous

Constant Value: "android.permission.WRITE_CONTACTS"

WRITE_EXTERNAL_STORAGE

Added in API Level 4

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to write to external storage.

Note: If *both* your [minSdkVersion](https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#min)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#min>) and

[targetSdkVersion](https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target>) values are set to

3 or lower, the system implicitly grants your app this permission. If you don't need this permission, be

sure your [targetSdkVersion](https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target)

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#target>) is 4 or higher.

Starting in API level 19, this permission is *not* required to read/write files in your application-specific directories returned by `Context.getExternalFilesDir(String)`.

([https://developer.android.com/reference/android/content/Context.html#getExternalFilesDir\(java.lang.String\)](https://developer.android.com/reference/android/content/Context.html#getExternalFilesDir(java.lang.String)))

and `Context.getExternalCacheDir()`.

([https://developer.android.com/reference/android/content/Context.html#getExternalCacheDir\(\)](https://developer.android.com/reference/android/content/Context.html#getExternalCacheDir())).

Protection level: dangerous

Constant Value: "android.permission.WRITE_EXTERNAL_STORAGE"

WRITE_GSERVICES

added in API Level 19

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to modify the Google service map.

Not for use by third-party applications.

Constant Value: "android.permission.WRITE_GSERVICES"

WRITE_SECURE_SETTINGS

added in API Level 23

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to read or write the secure system settings.

Not for use by third-party applications.

Constant Value: "android.permission.WRITE_SECURE_SETTINGS"

WRITE_SETTINGS

added in API Level 11

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to read or write the system settings.

Note: If the app targets API level 23 or higher, the app user must explicitly grant this permission to the app through a permission management screen. The app requests the user's approval by sending an intent with action [Settings.ACTION_MANAGE_WRITE_SETTINGS](https://developer.android.com/reference/android/provider/Settings.html#ACTION_MANAGE_WRITE_SETTINGS) (https://developer.android.com/reference/android/provider/Settings.html#ACTION_MANAGE_WRITE_SETTINGS)

. The app can check whether it has this authorization by calling [Settings.System.canWrite\(\)](https://developer.android.com/reference/android/provider/Settings.System.html#canWrite(android.content.Context)) ([https://developer.android.com/reference/android/provider/Settings.System.html#canWrite\(android.content.Context\)](https://developer.android.com/reference/android/provider/Settings.System.html#canWrite(android.content.Context)))

Protection level: signature

Constant Value: "android.permission.WRITE_SETTINGS"

WRITE_SYNC_SETTINGS

Added in API level 21
(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows applications to write the sync settings.

Protection level: normal

Constant Value: "android.permission.WRITE_SYNC_SETTINGS"

WRITE_VOICEMAIL

Added in API level 21
(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

Allows an application to modify and remove existing voicemails in the system.

Protection level: signature|privileged

Constant Value: "com.android.voicemail.permission.WRITE_VOICEMAIL"

Public constructors

Manifest.permission

(<https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels>)

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