Manifest.permission

public static final class Manifest.permission   
extends [Object](https://developer.android.com/reference/java/lang/Object.html)

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| [java.lang.Object](https://developer.android.com/reference/java/lang/Object.html) | |
| ↳ | android.Manifest.permission |

Summary

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| Constants | |
| [String](https://developer.android.com/reference/java/lang/String.html) | [ACCEPT\_HANDOVER](https://developer.android.com/reference/android/Manifest.permission.html#ACCEPT_HANDOVER)  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. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [BIND\_NOTIFICATION\_LISTENER\_SERVICE](https://developer.android.com/reference/android/Manifest.permission.html#BIND_NOTIFICATION_LISTENER_SERVICE)  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. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [BIND\_PRINT\_SERVICE](https://developer.android.com/reference/android/Manifest.permission.html#BIND_PRINT_SERVICE)  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. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [BIND\_QUICK\_SETTINGS\_TILE](https://developer.android.com/reference/android/Manifest.permission.html#BIND_QUICK_SETTINGS_TILE)  Allows an application to bind to third party quick settings tiles. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [BIND\_REMOTEVIEWS](https://developer.android.com/reference/android/Manifest.permission.html#BIND_REMOTEVIEWS)  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. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [BIND\_SCREENING\_SERVICE](https://developer.android.com/reference/android/Manifest.permission.html#BIND_SCREENING_SERVICE)  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. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [BIND\_TELECOM\_CONNECTION\_SERVICE](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](https://developer.android.com/reference/java/lang/String.html) | [BIND\_TEXT\_SERVICE](https://developer.android.com/reference/android/Manifest.permission.html#BIND_TEXT_SERVICE)  Must be required by a TextService (e.g. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [BIND\_TV\_INPUT](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](https://developer.android.com/reference/java/lang/String.html) | [BIND\_VISUAL\_VOICEMAIL\_SERVICE](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](https://developer.android.com/reference/java/lang/String.html) | [BIND\_VOICE\_INTERACTION](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](https://developer.android.com/reference/java/lang/String.html) | [BIND\_VPN\_SERVICE](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](https://developer.android.com/reference/java/lang/String.html) | [BIND\_VR\_LISTENER\_SERVICE](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](https://developer.android.com/reference/java/lang/String.html) | [BROADCAST\_SMS](https://developer.android.com/reference/android/Manifest.permission.html#BROADCAST_SMS)  Allows an application to broadcast an SMS receipt notification. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [BROADCAST\_STICKY](https://developer.android.com/reference/android/Manifest.permission.html#BROADCAST_STICKY)  Allows an application to broadcast sticky intents. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [BROADCAST\_WAP\_PUSH](https://developer.android.com/reference/android/Manifest.permission.html#BROADCAST_WAP_PUSH)  Allows an application to broadcast a WAP PUSH receipt notification. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [CALL\_PHONE](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](https://developer.android.com/reference/java/lang/String.html) | [CALL\_PRIVILEGED](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](https://developer.android.com/reference/java/lang/String.html) | [CAMERA](https://developer.android.com/reference/android/Manifest.permission.html#CAMERA)  Required to be able to access the camera device. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [CAPTURE\_AUDIO\_OUTPUT](https://developer.android.com/reference/android/Manifest.permission.html#CAPTURE_AUDIO_OUTPUT)  Allows an application to capture audio output. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [CAPTURE\_SECURE\_VIDEO\_OUTPUT](https://developer.android.com/reference/android/Manifest.permission.html#CAPTURE_SECURE_VIDEO_OUTPUT)  Allows an application to capture secure video output. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [CAPTURE\_VIDEO\_OUTPUT](https://developer.android.com/reference/android/Manifest.permission.html#CAPTURE_VIDEO_OUTPUT)  Allows an application to capture video output. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [CHANGE\_COMPONENT\_ENABLED\_STATE](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](https://developer.android.com/reference/java/lang/String.html) | [CHANGE\_CONFIGURATION](https://developer.android.com/reference/android/Manifest.permission.html#CHANGE_CONFIGURATION)  Allows an application to modify the current configuration, such as locale. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [CHANGE\_NETWORK\_STATE](https://developer.android.com/reference/android/Manifest.permission.html#CHANGE_NETWORK_STATE)  Allows applications to change network connectivity state. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [CHANGE\_WIFI\_MULTICAST\_STATE](https://developer.android.com/reference/android/Manifest.permission.html#CHANGE_WIFI_MULTICAST_STATE)  Allows applications to enter Wi-Fi Multicast mode. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [CHANGE\_WIFI\_STATE](https://developer.android.com/reference/android/Manifest.permission.html#CHANGE_WIFI_STATE)  Allows applications to change Wi-Fi connectivity state. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [CLEAR\_APP\_CACHE](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](https://developer.android.com/reference/java/lang/String.html) | [CONTROL\_LOCATION\_UPDATES](https://developer.android.com/reference/android/Manifest.permission.html#CONTROL_LOCATION_UPDATES)  Allows enabling/disabling location update notifications from the radio. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [DELETE\_CACHE\_FILES](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](https://developer.android.com/reference/java/lang/String.html) | [DELETE\_PACKAGES](https://developer.android.com/reference/android/Manifest.permission.html#DELETE_PACKAGES)  Allows an application to delete packages. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [DIAGNOSTIC](https://developer.android.com/reference/android/Manifest.permission.html#DIAGNOSTIC)  Allows applications to RW to diagnostic resources. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [DISABLE\_KEYGUARD](https://developer.android.com/reference/android/Manifest.permission.html#DISABLE_KEYGUARD)  Allows applications to disable the keyguard if it is not secure. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [DUMP](https://developer.android.com/reference/android/Manifest.permission.html#DUMP)  Allows an application to retrieve state dump information from system services. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [EXPAND\_STATUS\_BAR](https://developer.android.com/reference/android/Manifest.permission.html#EXPAND_STATUS_BAR)  Allows an application to expand or collapse the status bar. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [FACTORY\_TEST](https://developer.android.com/reference/android/Manifest.permission.html#FACTORY_TEST)  Run as a manufacturer test application, running as the root user. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [FOREGROUND\_SERVICE](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)). |
| [String](https://developer.android.com/reference/java/lang/String.html) | [GET\_ACCOUNTS](https://developer.android.com/reference/android/Manifest.permission.html#GET_ACCOUNTS)  Allows access to the list of accounts in the Accounts Service. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [GET\_ACCOUNTS\_PRIVILEGED](https://developer.android.com/reference/android/Manifest.permission.html#GET_ACCOUNTS_PRIVILEGED)  Allows access to the list of accounts in the Accounts Service. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [GET\_PACKAGE\_SIZE](https://developer.android.com/reference/android/Manifest.permission.html#GET_PACKAGE_SIZE)  Allows an application to find out the space used by any package. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [GET\_TASKS](https://developer.android.com/reference/android/Manifest.permission.html#GET_TASKS)  *This constant was deprecated in API level 21. No longer enforced.* |
| [String](https://developer.android.com/reference/java/lang/String.html) | [GLOBAL\_SEARCH](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. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [INSTALL\_LOCATION\_PROVIDER](https://developer.android.com/reference/android/Manifest.permission.html#INSTALL_LOCATION_PROVIDER)  Allows an application to install a location provider into the Location Manager. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [INSTALL\_PACKAGES](https://developer.android.com/reference/android/Manifest.permission.html#INSTALL_PACKAGES)  Allows an application to install packages. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [INSTALL\_SHORTCUT](https://developer.android.com/reference/android/Manifest.permission.html#INSTALL_SHORTCUT)  Allows an application to install a shortcut in Launcher. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [INSTANT\_APP\_FOREGROUND\_SERVICE](https://developer.android.com/reference/android/Manifest.permission.html#INSTANT_APP_FOREGROUND_SERVICE)  Allows an instant app to create foreground services. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [INTERNET](https://developer.android.com/reference/android/Manifest.permission.html#INTERNET)  Allows applications to open network sockets. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [KILL\_BACKGROUND\_PROCESSES](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)). |
| [String](https://developer.android.com/reference/java/lang/String.html) | [LOCATION\_HARDWARE](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](https://developer.android.com/reference/java/lang/String.html) | [MANAGE\_DOCUMENTS](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](https://developer.android.com/reference/java/lang/String.html) | [MANAGE\_OWN\_CALLS](https://developer.android.com/reference/android/Manifest.permission.html#MANAGE_OWN_CALLS)  Allows a calling application which manages it own calls through the self-managed[ConnectionService](https://developer.android.com/reference/android/telecom/ConnectionService.html) APIs. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [MASTER\_CLEAR](https://developer.android.com/reference/android/Manifest.permission.html#MASTER_CLEAR)  Not for use by third-party applications. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [MEDIA\_CONTENT\_CONTROL](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. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [MODIFY\_AUDIO\_SETTINGS](https://developer.android.com/reference/android/Manifest.permission.html#MODIFY_AUDIO_SETTINGS)  Allows an application to modify global audio settings. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [MODIFY\_PHONE\_STATE](https://developer.android.com/reference/android/Manifest.permission.html#MODIFY_PHONE_STATE)  Allows modification of the telephony state - power on, mmi, etc. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [MOUNT\_FORMAT\_FILESYSTEMS](https://developer.android.com/reference/android/Manifest.permission.html#MOUNT_FORMAT_FILESYSTEMS)  Allows formatting file systems for removable storage. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [MOUNT\_UNMOUNT\_FILESYSTEMS](https://developer.android.com/reference/android/Manifest.permission.html#MOUNT_UNMOUNT_FILESYSTEMS)  Allows mounting and unmounting file systems for removable storage. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [NFC](https://developer.android.com/reference/android/Manifest.permission.html#NFC)  Allows applications to perform I/O operations over NFC. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [NFC\_TRANSACTION\_EVENT](https://developer.android.com/reference/android/Manifest.permission.html#NFC_TRANSACTION_EVENT)  Allows applications to receive NFC transaction events. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [PACKAGE\_USAGE\_STATS](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](https://developer.android.com/reference/java/lang/String.html) | [REBOOT](https://developer.android.com/reference/android/Manifest.permission.html#REBOOT)  Required to be able to reboot the device. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [RECEIVE\_BOOT\_COMPLETED](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](https://developer.android.com/reference/java/lang/String.html) | [RECEIVE\_MMS](https://developer.android.com/reference/android/Manifest.permission.html#RECEIVE_MMS)  Allows an application to monitor incoming MMS messages. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [RECEIVE\_SMS](https://developer.android.com/reference/android/Manifest.permission.html#RECEIVE_SMS)  Allows an application to receive SMS messages. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [RECEIVE\_WAP\_PUSH](https://developer.android.com/reference/android/Manifest.permission.html#RECEIVE_WAP_PUSH)  Allows an application to receive WAP push messages. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [RECORD\_AUDIO](https://developer.android.com/reference/android/Manifest.permission.html#RECORD_AUDIO)  Allows an application to record audio. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [REORDER\_TASKS](https://developer.android.com/reference/android/Manifest.permission.html#REORDER_TASKS)  Allows an application to change the Z-order of tasks. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [REQUEST\_COMPANION\_RUN\_IN\_BACKGROUND](https://developer.android.com/reference/android/Manifest.permission.html#REQUEST_COMPANION_RUN_IN_BACKGROUND)  Allows a companion app to run in the background. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [REQUEST\_COMPANION\_USE\_DATA\_IN\_BACKGROUND](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](https://developer.android.com/reference/java/lang/String.html) | [REQUEST\_DELETE\_PACKAGES](https://developer.android.com/reference/android/Manifest.permission.html#REQUEST_DELETE_PACKAGES)  Allows an application to request deleting packages. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS](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](https://developer.android.com/reference/java/lang/String.html) | [REQUEST\_INSTALL\_PACKAGES](https://developer.android.com/reference/android/Manifest.permission.html#REQUEST_INSTALL_PACKAGES)  Allows an application to request installing packages. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [RESTART\_PACKAGES](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))*API is no longer supported.* |
| [String](https://developer.android.com/reference/java/lang/String.html) | [SEND\_RESPOND\_VIA\_MESSAGE](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](https://developer.android.com/reference/java/lang/String.html) | [SEND\_SMS](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))*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](https://developer.android.com/reference/java/lang/String.html) | [SET\_TIME\_ZONE](https://developer.android.com/reference/android/Manifest.permission.html#SET_TIME_ZONE)  Allows applications to set the system time zone. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [SET\_WALLPAPER](https://developer.android.com/reference/android/Manifest.permission.html#SET_WALLPAPER)  Allows applications to set the wallpaper. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [SET\_WALLPAPER\_HINTS](https://developer.android.com/reference/android/Manifest.permission.html#SET_WALLPAPER_HINTS)  Allows applications to set the wallpaper hints. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [SIGNAL\_PERSISTENT\_PROCESSES](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](https://developer.android.com/reference/java/lang/String.html) | [STATUS\_BAR](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](https://developer.android.com/reference/java/lang/String.html) | [SYSTEM\_ALERT\_WINDOW](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](https://developer.android.com/reference/java/lang/String.html) | [TRANSMIT\_IR](https://developer.android.com/reference/android/Manifest.permission.html#TRANSMIT_IR)  Allows using the device's IR transmitter, if available. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [UNINSTALL\_SHORTCUT](https://developer.android.com/reference/android/Manifest.permission.html#UNINSTALL_SHORTCUT)  Don't use this permission in your app. |
| [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](https://developer.android.com/reference/java/lang/String.html) | [WRITE\_CALENDAR](https://developer.android.com/reference/android/Manifest.permission.html#WRITE_CALENDAR)  Allows an application to write the user's calendar data. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [WRITE\_CALL\_LOG](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](https://developer.android.com/reference/java/lang/String.html) | [WRITE\_CONTACTS](https://developer.android.com/reference/android/Manifest.permission.html#WRITE_CONTACTS)  Allows an application to write the user's contacts data. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [WRITE\_EXTERNAL\_STORAGE](https://developer.android.com/reference/android/Manifest.permission.html#WRITE_EXTERNAL_STORAGE)  Allows an application to write to external storage. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [WRITE\_GSERVICES](https://developer.android.com/reference/android/Manifest.permission.html#WRITE_GSERVICES)  Allows an application to modify the Google service map. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [WRITE\_SECURE\_SETTINGS](https://developer.android.com/reference/android/Manifest.permission.html#WRITE_SECURE_SETTINGS)  Allows an application to read or write the secure system settings. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [WRITE\_SETTINGS](https://developer.android.com/reference/android/Manifest.permission.html#WRITE_SETTINGS)  Allows an application to read or write the system settings. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [WRITE\_SYNC\_SETTINGS](https://developer.android.com/reference/android/Manifest.permission.html#WRITE_SYNC_SETTINGS)  Allows applications to write the sync settings. |
| [String](https://developer.android.com/reference/java/lang/String.html) | [WRITE\_VOICEMAIL](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())() |  |

|  |
| --- |
| Inherited methods |
| From class [java.lang.Object](https://developer.android.com/reference/java/lang/Object.html) |

Constants

ACCEPT\_HANDOVER

added in [API level 28](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) ACCEPT\_HANDOVER

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)) 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 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) ACCESS\_CHECKIN\_PROPERTIES

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 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) ACCESS\_COARSE\_LOCATION

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 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) ACCESS\_FINE\_LOCATION

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 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) ACCESS\_LOCATION\_EXTRA\_COMMANDS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) ACCESS\_NETWORK\_STATE

Allows applications to access information about networks.

Protection level: normal

Constant Value: "android.permission.ACCESS\_NETWORK\_STATE"

ACCESS\_NOTIFICATION\_POLICY

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) ACCESS\_NOTIFICATION\_POLICY

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) ACCESS\_WIFI\_STATE

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 5](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) ACCOUNT\_MANAGER

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) ADD\_VOICEMAIL

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) ANSWER\_PHONE\_CALLS

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 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) BATTERY\_STATS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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.

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) BIND\_APPWIDGET

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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.

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) BIND\_CARRIER\_SERVICES

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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.

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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.

Protection level: signature

Constant Value: "android.permission.BIND\_CONDITION\_PROVIDER\_SERVICE"

BIND\_DEVICE\_ADMIN

added in [API level 8](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 21](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\_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.

Protection level: signature

Constant Value: "android.permission.BIND\_DREAM\_SERVICE"

BIND\_INCALL\_SERVICE

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\_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.

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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.

Protection level: signature

Constant Value: "android.permission.BIND\_INPUT\_METHOD"

BIND\_MIDI\_DEVICE\_SERVICE

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\_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.

Protection level: signature

Constant Value: "android.permission.BIND\_MIDI\_DEVICE\_SERVICE"

BIND\_NFC\_SERVICE

added in [API level 19](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\_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.

Protection level: signature

Constant Value: "android.permission.BIND\_NFC\_SERVICE"

BIND\_NOTIFICATION\_LISTENER\_SERVICE

added in [API level 18](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\_NOTIFICATION\_LISTENER\_SERVICE

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) BIND\_PRINT\_SERVICE

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) BIND\_QUICK\_SETTINGS\_TILE

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) BIND\_REMOTEVIEWS

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"

BIND\_SCREENING\_SERVICE

added in [API level 24](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\_SCREENING\_SERVICE

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"

BIND\_TELECOM\_CONNECTION\_SERVICE

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\_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.

Protection level: signature|privileged

Constant Value: "android.permission.BIND\_TELECOM\_CONNECTION\_SERVICE"

BIND\_TEXT\_SERVICE

added in [API level 14](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\_TEXT\_SERVICE

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"

BIND\_TV\_INPUT

added in [API level 21](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\_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.

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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.

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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.

Protection level: signature

Constant Value: "android.permission.BIND\_VOICE\_INTERACTION"

BIND\_VPN\_SERVICE

added in [API level 14](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\_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.

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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.

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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.

Protection level: signature|privileged

Constant Value: "android.permission.BIND\_WALLPAPER"

BLUETOOTH

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) BLUETOOTH

Allows applications to connect to paired bluetooth devices.

Protection level: normal

Constant Value: "android.permission.BLUETOOTH"

BLUETOOTH\_ADMIN

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) BLUETOOTH\_ADMIN

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) BLUETOOTH\_PRIVILEGED

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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.

Protection level: dangerous

Constant Value: "android.permission.BODY\_SENSORS"

BROADCAST\_PACKAGE\_REMOVED

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) BROADCAST\_PACKAGE\_REMOVED

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) BROADCAST\_SMS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) BROADCAST\_STICKY

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) BROADCAST\_WAP\_PUSH

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

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) CALL\_PHONE

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"

CALL\_PRIVILEGED

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) 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.

Not for use by third-party applications.

Constant Value: "android.permission.CALL\_PRIVILEGED"

CAMERA

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) CAMERA

Required to be able to access the camera device.

This will automatically enforce the [uses-feature](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"

CAPTURE\_AUDIO\_OUTPUT

added in [API level 19](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) CAPTURE\_AUDIO\_OUTPUT

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) CAPTURE\_SECURE\_VIDEO\_OUTPUT

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) CAPTURE\_VIDEO\_OUTPUT

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 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) CHANGE\_COMPONENT\_ENABLED\_STATE

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 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) CHANGE\_CONFIGURATION

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

Constant Value: "android.permission.CHANGE\_CONFIGURATION"

CHANGE\_NETWORK\_STATE

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) CHANGE\_NETWORK\_STATE

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 4](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) CHANGE\_WIFI\_MULTICAST\_STATE

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 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) CHANGE\_WIFI\_STATE

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) CLEAR\_APP\_CACHE

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) CONTROL\_LOCATION\_UPDATES

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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.

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) DELETE\_PACKAGES

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) DIAGNOSTIC

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) DISABLE\_KEYGUARD

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) DUMP

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) EXPAND\_STATUS\_BAR

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 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) FACTORY\_TEST

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 28](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) FOREGROUND\_SERVICE

Allows a regular application to use [Service.startForeground](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 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) GET\_ACCOUNTS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) GET\_ACCOUNTS\_PRIVILEGED

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) GET\_PACKAGE\_SIZE

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) GET\_TASKS

**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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) GLOBAL\_SEARCH

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) INSTALL\_LOCATION\_PROVIDER

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 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) INSTALL\_PACKAGES

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 19](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) INSTALL\_SHORTCUT

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))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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) INSTANT\_APP\_FOREGROUND\_SERVICE

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) INTERNET

Allows applications to open network sockets.

Protection level: normal

Constant Value: "android.permission.INTERNET"

KILL\_BACKGROUND\_PROCESSES

added in [API level 8](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) KILL\_BACKGROUND\_PROCESSES

Allows an application to call [ActivityManager.killBackgroundProcesses(String)](https://developer.android.com/reference/android/app/ActivityManager.html#killBackgroundProcesses(java.lang.String)).

Protection level: normal

Constant Value: "android.permission.KILL\_BACKGROUND\_PROCESSES"

LOCATION\_HARDWARE

added in [API level 18](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) LOCATION\_HARDWARE

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"

MANAGE\_DOCUMENTS

added in [API level 19](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) MANAGE\_DOCUMENTS

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"

MANAGE\_OWN\_CALLS

added in [API level 26](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) MANAGE\_OWN\_CALLS

Allows a calling application which manages it own calls through the self-managed [ConnectionService](https://developer.android.com/reference/android/telecom/ConnectionService.html) APIs. See[PhoneAccount.CAPABILITY\_SELF\_MANAGED](https://developer.android.com/reference/android/telecom/PhoneAccount.html#CAPABILITY_SELF_MANAGED) for more information on the self-managed ConnectionService APIs.

Protection level: normal

Constant Value: "android.permission.MANAGE\_OWN\_CALLS"

MASTER\_CLEAR

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) MASTER\_CLEAR

Not for use by third-party applications.

Constant Value: "android.permission.MASTER\_CLEAR"

MEDIA\_CONTENT\_CONTROL

added in [API level 19](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) MEDIA\_CONTENT\_CONTROL

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 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) MODIFY\_AUDIO\_SETTINGS

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 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) MODIFY\_PHONE\_STATE

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) MOUNT\_FORMAT\_FILESYSTEMS

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 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) MOUNT\_UNMOUNT\_FILESYSTEMS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) NFC

Allows applications to perform I/O operations over NFC.

Protection level: normal

Constant Value: "android.permission.NFC"

NFC\_TRANSACTION\_EVENT

added in [API level 28](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) NFC\_TRANSACTION\_EVENT

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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.

Constant Value: "android.permission.PACKAGE\_USAGE\_STATS"

PERSISTENT\_ACTIVITY

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) 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.

Constant Value: "android.permission.PERSISTENT\_ACTIVITY"

PROCESS\_OUTGOING\_CALLS

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) 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.

Protection level: dangerous

Constant Value: "android.permission.PROCESS\_OUTGOING\_CALLS"

READ\_CALENDAR

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) READ\_CALENDAR

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) READ\_CALL\_LOG

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 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) READ\_CONTACTS

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 16](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) READ\_EXTERNAL\_STORAGE

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)) and [Context.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 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) READ\_FRAME\_BUFFER

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 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) READ\_INPUT\_STATE

**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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) READ\_LOGS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) READ\_PHONE\_NUMBERS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.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.

**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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) READ\_SMS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) READ\_SYNC\_SETTINGS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) READ\_SYNC\_STATS

Allows applications to read the sync stats.

Protection level: normal

Constant Value: "android.permission.READ\_SYNC\_STATS"

READ\_VOICEMAIL

added in [API level 21](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) READ\_VOICEMAIL

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) REBOOT

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](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) 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. 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"

RECEIVE\_MMS

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) RECEIVE\_MMS

Allows an application to monitor incoming MMS messages.

Protection level: dangerous

Constant Value: "android.permission.RECEIVE\_MMS"

RECEIVE\_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) RECEIVE\_SMS

Allows an application to receive SMS messages.

Protection level: dangerous

Constant Value: "android.permission.RECEIVE\_SMS"

RECEIVE\_WAP\_PUSH

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) RECEIVE\_WAP\_PUSH

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) RECORD\_AUDIO

Allows an application to record audio.

Protection level: dangerous

Constant Value: "android.permission.RECORD\_AUDIO"

REORDER\_TASKS

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) REORDER\_TASKS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) REQUEST\_COMPANION\_RUN\_IN\_BACKGROUND

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](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) REQUEST\_COMPANION\_USE\_DATA\_IN\_BACKGROUND

Allows a companion app to use data in the background.

Protection level: normal

Constant Value: "android.permission.REQUEST\_COMPANION\_USE\_DATA\_IN\_BACKGROUND"

REQUEST\_DELETE\_PACKAGES

added in [API level 26](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) REQUEST\_DELETE\_PACKAGES

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)).

Protection level: normal

Constant Value: "android.permission.REQUEST\_DELETE\_PACKAGES"

REQUEST\_IGNORE\_BATTERY\_OPTIMIZATIONS

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) 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). 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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) REQUEST\_INSTALL\_PACKAGES

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 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) 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)) API is no longer supported.

Constant Value: "android.permission.RESTART\_PACKAGES"

SEND\_RESPOND\_VIA\_MESSAGE

added in [API level 18](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\_RESPOND\_VIA\_MESSAGE

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) SET\_ALARM

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 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) SET\_ALWAYS\_FINISH

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) SET\_ANIMATION\_SCALE

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) SET\_DEBUG\_APP

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 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) 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)) for details.

Constant Value: "android.permission.SET\_PREFERRED\_APPLICATIONS"

SET\_PROCESS\_LIMIT

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) SET\_PROCESS\_LIMIT

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) SET\_TIME

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 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) SET\_TIME\_ZONE

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 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) SET\_WALLPAPER

Allows applications to set the wallpaper.

Protection level: normal

Constant Value: "android.permission.SET\_WALLPAPER"

SET\_WALLPAPER\_HINTS

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) SET\_WALLPAPER\_HINTS

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](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) SIGNAL\_PERSISTENT\_PROCESSES

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"

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) STATUS\_BAR

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"

SYSTEM\_ALERT\_WINDOW

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) 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. 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)).

Protection level: signature

Constant Value: "android.permission.SYSTEM\_ALERT\_WINDOW"

TRANSMIT\_IR

added in [API level 19](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) TRANSMIT\_IR

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

Protection level: normal

Constant Value: "android.permission.TRANSMIT\_IR"

UNINSTALL\_SHORTCUT

added in [API level 19](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) UNINSTALL\_SHORTCUT

**Don't use this permission in your app.**  
This permission is no longer supported.

Constant Value: "com.android.launcher.permission.UNINSTALL\_SHORTCUT"

UPDATE\_DEVICE\_STATS

added in [API level 3](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) UPDATE\_DEVICE\_STATS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) USE\_BIOMETRIC

Allows an app to use device supported biometric modalities.

Protection level: normal

Constant Value: "android.permission.USE\_BIOMETRIC"

USE\_FINGERPRINT

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) 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

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) USE\_SIP

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) VIBRATE

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) WAKE\_LOCK

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) WRITE\_APN\_SETTINGS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) WRITE\_CALENDAR

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) WRITE\_CALL\_LOG

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) 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.WRITE\_CALL\_LOG"

WRITE\_CONTACTS

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) WRITE\_CONTACTS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) WRITE\_EXTERNAL\_STORAGE

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) 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.

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)) and [Context.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 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) WRITE\_GSERVICES

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 3](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) WRITE\_SECURE\_SETTINGS

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 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) WRITE\_SETTINGS

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). 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)).

Protection level: signature

Constant Value: "android.permission.WRITE\_SETTINGS"

WRITE\_SYNC\_SETTINGS

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) WRITE\_SYNC\_SETTINGS

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)

public static final [String](https://developer.android.com/reference/java/lang/String.html) WRITE\_VOICEMAIL

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

added in [API level 1](https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

public Manifest.permission ()