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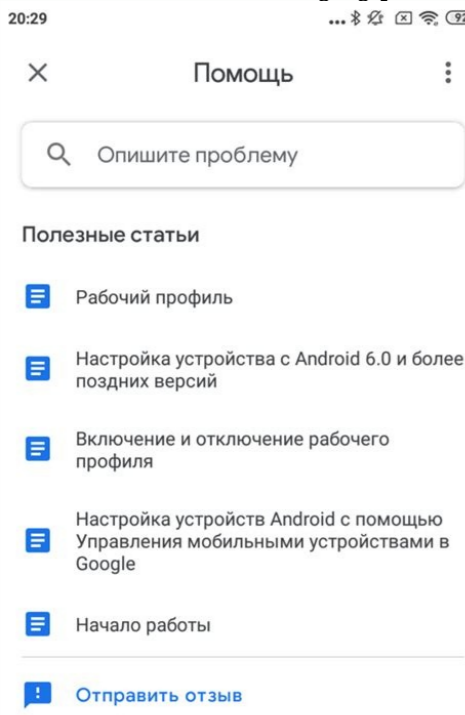

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Device policy manager android example

What is android device policy.

Public interface for managing policies enforced on a device. Most clients of this class must be registered with the system as a device administrator. Additionally, a device administrator may be registered as either a profile or device owner.

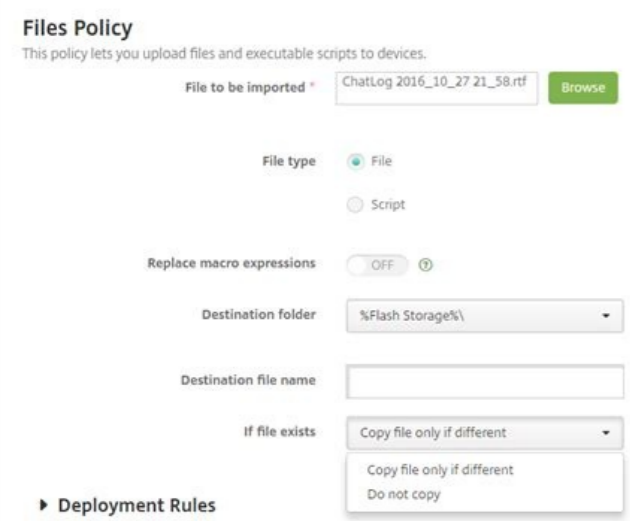


given method is accessible to all device administrators unless the documentation for that method specifies that it is restricted to either device or profile owners. Any application calling an api may only pass as an argument a device administrator component it owns. Otherwise, a `SecurityException` will be thrown. class `DevicePolicyManager`. `InstallSystemUpdateCallback` Callback used in `DevicePolicyManager`. `InstallSystemUpdate(ComponentName, Uri, Executor, InstallSystemUpdateCallback)` to indicate that there was an error while trying to install an update. interface `DevicePolicyManager.OnClearApplicationUserDataListener` Callback used in `DevicePolicyManager.clearApplicationUserData(ComponentName, String, Executor, OnClearApplicationUserDataListener)` to indicate that the clearing of an application's user data is done. String `ACTION_ADD_DEVICE_ADMIN` Activity action: ask the user to add a new device administrator to the system. String `ACTION_ADMIN_POLICY_COMPLIANCE` Activity action: Starts the administrator to show policy compliance for the provisioning. String `ACTION_APPLICATION_DELEGATION_SCOPES_CHANGED` Broadcast Action: Sent after application delegation scopes are changed. String `ACTION_CHECK_POLICY_COMPLIANCE` Activity action: launch the DPC to check policy compliance. String `ACTION_DEVICE_ADMIN_SERVICE` Service action: Action for a service that device owner and profile owner can optionally own. String `ACTION_DEVICE_FINANCING_STATE_CHANGED` Broadcast Action: Broadcast sent to indicate that the device financing state has changed. String `ACTION_DEVICE_OWNER_CHANGED` Broadcast action: sent when the device owner is set, changed or cleared. String `ACTION_DEVICE_POLICY_RESOURCE_UPDATED` Broadcast action: notify system apps (e.g. settings, SysUI, etc) that the device management resources with IDs `EXTRA_RESOURCE_IDS` has been updated, the updated resources can be retrieved using `DevicePolicyResourcesManager.getDrawable` and `DevicePolicyResourcesManager.getString`.

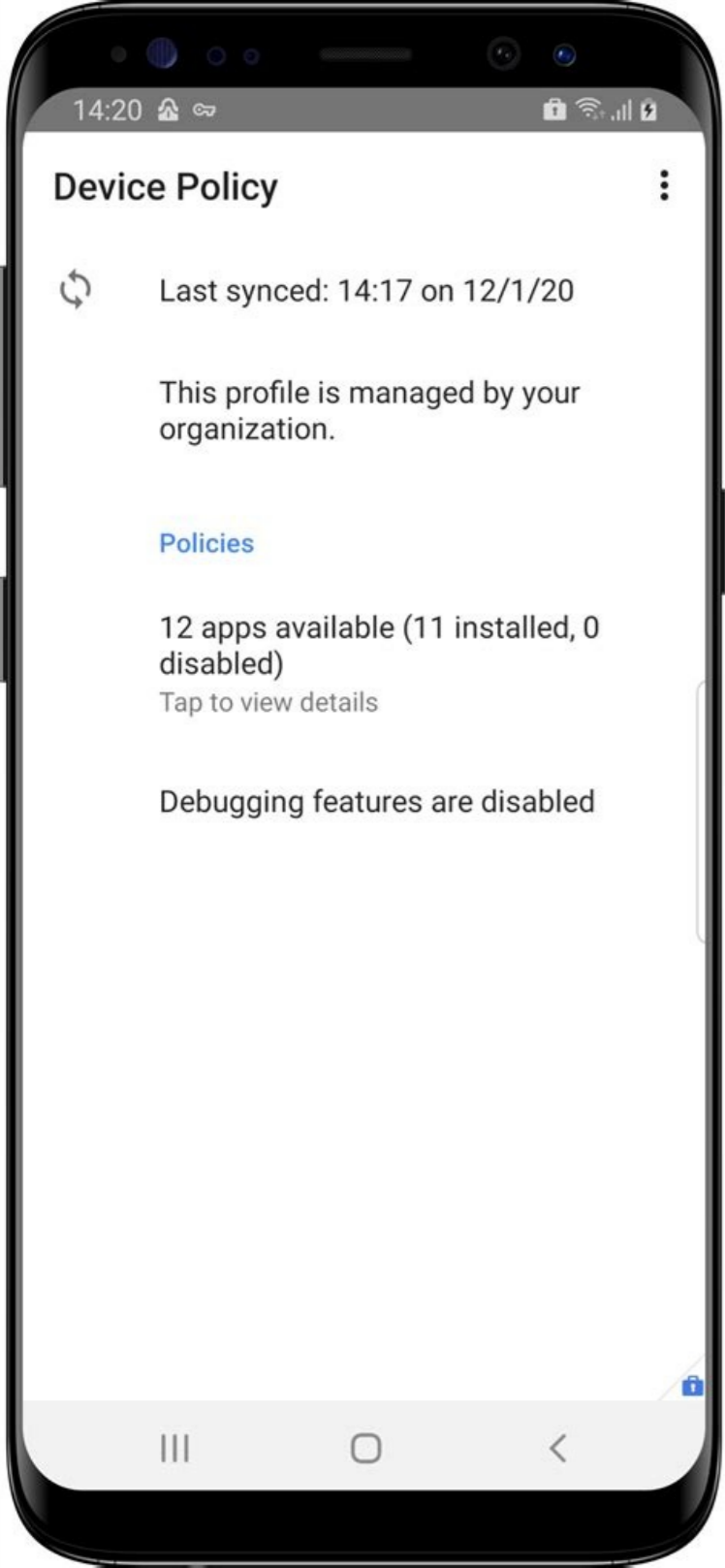
Android 6.0 (API 23)			
SDK Platform	23	3	Installed
Android TV ARM EABI v7a System Image	23	3	Not installed
Android TV Intel x86 Atom System Image	23	8	Installed
Android Wear ARM EABI v7a System Image	23	6	Not installed
Android Wear Intel x86 Atom System Image	23	6	Not installed
ARM EABI v7a System Image	23	6	Not compatible with Mac OS

String ACTION_GET_PROVISIONING_MODE Activity action: Starts the administrator to get the mode for the provisioning. String ACTION_MANAGED_PROFILE_PROVISIONED Broadcast Action: This broadcast is sent to indicate that provisioning of a managed profile has completed successfully. String ACTION_PROFILE_OWNER_CHANGED Broadcast action: sent when the profile owner is set, changed or cleared. String ACTION_PROVISIONING_SUCCESSFUL Activity action: This activity action is sent to indicate that provisioning of a managed profile or managed device has completed successfully. String ACTION_PROVISION_MANAGED_DEVICE This constant was deprecated in API level 31, to support Build.VERSION_CODES.S and later, admin apps must implement activities with intent filters for the ACTION_GET_PROVISIONING_MODE and ACTION_ADMIN_POLICY_COMPLIANCE intent actions; using ACTION_PROVISION_MANAGED_DEVICE to start provisioning will cause the provisioning to fail; to additionally support pre-Build.VERSION_CODES.S, admin apps must also continue to use this constant.

String ACTION_PROVISION_MANAGED_PROFILE Activity action: Starts the provisioning flow which sets up a managed profile. String ACTION_SET_NEW_PARENT_PROFILE_PASSWORD Activity action: have the user enter a new password for the parent profile. String ACTION_SET_NEW_PASSWORD Activity action: have the user enter a new password. String ACTION_START_ENCRYPTION Activity action: begin the process of encrypting data on the device. String ACTION_SYSTEM_UPDATE_POLICY_CHANGED Broadcast action: notify that a new local system update policy has been set by the device owner. String DELEGATION_APP_RESTRICTIONS Delegation of application restrictions management. String DELEGATION_CERT_INSTALL Delegation of certificate installation and management. String DELEGATION_CERT_SELECTION Grants access to selection of KeyChain certificates on behalf of requesting apps. String DELEGATION_DEVICE_ADMIN Delegation of device administration management. String DELEGATION_EXPORT_PACKAGE Delegation of export package management. String DELEGATION_INSTALL_PACKAGE Delegation of installation of packages. String DELEGATION_NETWORK_LOGGING Grant access to setNetworkLoggingEnabled(ComponentName, boolean), isNetworkLoggingEnabled(ComponentName) and retrieveNetworkLogs(ComponentName, long). String DELEGATION_PACKAGE_ACCESS Delegation of package access state. String DELEGATION_PERMISSION_GRANT Delegation of permission policy and permission grant state. String DELEGATION_SECURITY_LOGGING Grants access to setSecurityLoggingEnabled(ComponentName, boolean), isSecurityLoggingEnabled(ComponentName), retrieveSecurityLogs(ComponentName), and retrievePreRebootSecurityLogs(ComponentName). int ENCRYPTION_STATUS_ACTIVATING This constant was deprecated in API level 34. This result code has never actually been used, so there is no reason for apps to check for it. int ENCRYPTION_STATUS_ACTIVE Result code for setStorageEncryption(ComponentName, boolean) and getStorageEncryptionStatus(): indicating that encryption is active. int ENCRYPTION_STATUS_ACTIVE_DEFAULT_KEY Result code for getStorageEncryptionStatus(): indicating that encryption is active, but the encryption key is not cryptographically protected by the user's credentials. int ENCRYPTION_STATUS_ACTIVE_PREPARE Result code for getStorageEncryptionStatus(): indicating that encryption is active and the encryption key is tied to the user or profile. int ENCRYPTION_STATUS_INACTIVE Result code for getStorageEncryptionStatus(): indicating that encryption is not active. int ENCRYPTION_STATUS_PENDING Result code for getStorageEncryptionStatus(): indicating that encryption is pending. int ENCRYPTION_STATUS_SUCCESS Result code for getStorageEncryptionStatus(): indicating that encryption is successful. String EXTRA_ADMIN DELEGATION An optional CharSequence providing additional explanation for the delegation. String EXTRA_DELEGATION_OPTIONS An arrayList corresponding to the delegation scopes given to an app. String APPLICATION_DELEGATION_SCOPES_CHANGED Broadcast. String EXTRA_DEVICE_ADMIN The ComponentName of the administrator component. String EXTRA_DEVICE_PASSWORD_REQUIREMENT_ONLY A boolean extra for ACTION_SET_NEW_PARENT_PROFILE_PASSWORD requesting that only device password requirement is enforced during the parent profile password enrollment flow. String EXTRA_PASSWORD_COMPLEXITY An integer indicating the complexity level of the new password an app would like the user to set when launching the action ACTION_SET_NEW_PASSWORD.



String EXTRA PROVISIONING ACCOUNT TO MIGRATE An Account extra holding the account to migrate during managed profile provisioning. String EXTRA PROVISIONING ADMIN EXTRAS BUNDLE A Parcelable extra of type PersistableBundle that allows a mobile device management application or NFC programmer application which starts managed provisioning to pass data to the management application instance after provisioning. String EXTRA PROVISIONING ALLOWED PROVISIONING MODES An ArrayList of Integer extra specifying the allowed provisioning modes. String EXTRA PROVISIONING ALLOW OFFLINE A boolean extra indicating whether offline provisioning is allowed. String EXTRA PROVISIONING DEVICE ADMIN COMPONENT NAME A ComponentName extra indicating the device admin receiver of the mobile device management application that will be set as the profile owner or device owner and active admin. String EXTRA PROVISIONING DEVICE ADMIN MINIMUM VERSION CODE An Int extra holding a minimum required version code for the device admin package. String EXTRA PROVISIONING DEVICE ADMIN PACKAGE CHECKSUM A String extra holding the URL-safe base64 encoded SHA-256 hash of the file at download location specified in String EXTRA PROVISIONING DEVICE ADMIN PACKAGE DOWNLOAD LOCATION. String EXTRA PROVISIONING DEVICE ADMIN PACKAGE DOWNLOAD LOCATION A String extra holding a http cookie header which should be set in the http request to the url specified in String EXTRA PROVISIONING DEVICE ADMIN PACKAGE DOWNLOAD LOCATION. String EXTRA PROVISIONING DEVICE ADMIN PACKAGE DOWNLOAD LOCATION A String extra holding a url that specifies the download location of the device admin package. String EXTRA PROVISIONING DEVICE ADMIN PACKAGE NAME This constant was deprecated in API level 23. Use EXTRA PROVISIONING DEVICE ADMIN COMPONENT NAME. This extra is still supported, but only if there is only one device admin receiver in the package that requires the permission Manifest.permission.BIND_DEVICE_ADMIN. String EXTRA PROVISIONING DEVICE ADMIN SIGNATURE_CHECKSUM A String extra holding the URL-safe base64 encoded SHA-256 checksum of any signature of the android package archive at the download location specified in String EXTRA PROVISIONING DEVICE ADMIN PACKAGE DOWNLOAD LOCATION. String EXTRA PROVISIONING DISCLAIMERS A Bundle[] extra consisting of list of disclaimer headers and disclaimer contents. String EXTRA PROVISIONING DISCLAIMER_CONTENT A Uri extra pointing to disclaimer content. String EXTRA PROVISIONING DISCLAIMER_HEADER A String extra of localized disclaimer header. String EXTRA PROVISIONING EMAIL_ADDRESS This constant was deprecated in API level 26. From Build.VERSION_CODES.O, never used while provisioning. String EXTRA PROVISIONING KEEP_ACCOUNT A boolean extra indicating that the migrated account should be kept. String EXTRA PROVISIONING KEEP_SCREEN ON This constant was deprecated in API level 34. From Build.VERSION_CODES.UPSIDE_DOWN_CAKE, the flag wouldn't be functional. The screen is kept on throughout the provisioning flow. String EXTRA PROVISIONING LEAVE_ALL_SYSTEM_APPS_ENABLED A Boolean extra that can be used by the mobile device management application to skip the disabling of system apps during provisioning when set to true. String EXTRA PROVISIONING LOCAL_A A String extra holding the Locale that the device will be set to. String EXTRA PROVISIONING LOCAL_TIME A Long extra holding the wall clock time (in milliseconds) to be set on the device's AlarmManager. String EXTRA PROVISIONING LOGO_URI This constant was deprecated in API level 33. Logo customization is no longer supported in the provisioning flow. String EXTRA PROVISIONING MAIN_COLOR This constant was deprecated in API level 31. Color customization for no longer supported in the provisioning flow. String EXTRA PROVISIONING MODE An Int extra holding the provisioning mode returned by the administrator. String EXTRA PROVISIONING PERMISSIONS A boolean extra indicating the admin of a device-managed profile opts out of controlling permission grants for selected device permissions, see permissionGrantState(android.os.ComponentName, java.lang.String, java.lang.String, int). String EXTRA PROVISIONING SERIAL_NUMBER A String extra holding the serial number of the device. This extra should be used only when the provisioning launch intent, if one is supplied by the device policy management role holder via String EXTRA RESULT_LAUNCH_INTENT. String EXTRA PROVISIONING SKIP_EDUCATION_SCREEN A boolean extra indicating if the education screens from the provisioning flow should be skipped. String EXTRA PROVISIONING SKIP_ENCRYPTION A boolean extra indicating whether device encryption can be skipped as part of device owner or managed profile provisioning. String EXTRA PROVISIONING SKIP_USER_CONSENT This constant was deprecated in API level 31. This extra is no longer relevant as device owners cannot create managed profiles String EXTRA PROVISIONING TIME_ZONE A String extra holding the time zone AlarmManager that the device will be set to.



String EXTRA_PROVISIONING_USE_MOBILE_DATA A boolean extra indicating if mobile it should be used during the provisioning flow for downloading the admin app. String EXTRA_PROVISIONING_WIFI_ANONYMOUS_IDENTITY The anonymous identity of the wifi network in EXTRA_PROVISIONING_WIFI_SSID. String EXTRA_PROVISIONING_WIFI_CA_CERTIFICATE The CA certificate of the wifi network in EXTRA_PROVISIONING_WIFI_SSID. String EXTRA_PROVISIONING_WIFI_DOMAIN The domain of the wifi network in EXTRA_PROVISIONING_WIFI_SSID. String EXTRA_PROVISIONING_WIFI_EAP_METHOD The EAP method of the wifi network in EXTRA_PROVISIONING_WIFI_SSID. String EXTRA_PROVISIONING_WIFI_IDENTIFIER The identifier of the wifi network in EXTRA_PROVISIONING_WIFI_SSID. String EXTRA_PROVISIONING_WIFI_PAC_URL A string extra holding the proxy auto-config (PAC) URL for the wifi network in EXTRA_PROVISIONING_WIFI_SSID. String EXTRA_PROVISIONING_WIFI_PASSWORD A String extra holding the password of the wifi network in EXTRA_PROVISIONING_WIFI_SSID. String EXTRA_PROVISIONING_WIFI_PHASE2_AUTH The phase 2 authentication of the wifi network in EXTRA_PROVISIONING_WIFI_SSID and could be one of NONE, PAP, MSCHAP, MSCHAPV2, GTC, SIM, AK or AKA PRIME. String EXTRA_PROVISIONING_WIFI_PROXY_BYPASS A string extra holding the proxy bypass for the wifi network in EXTRA_PROVISIONING_WIFI_SSID. String EXTRA_PROVISIONING_WIFI_PROXY_HOST A String extra holding the proxy host for the wifi network in EXTRA_PROVISIONING_WIFI_SSID. String EXTRA_PROVISIONING_WIFI_SECURITY_TYPE A String extra holding the security type of the wifi network in EXTRA_PROVISIONING_WIFI_SSID. String EXTRA_PROVISIONING_WIFI_USERNAME A String extra holding the username for the wifi network in EXTRA_PROVISIONING_WIFI_SSID. String EXTRA_PROVISIONING_WIFI_WPA_WEP_WPAE String extra indicating the security type of the wifi network in EXTRA_PROVISIONING_WIFI_SSID. String EXTRA_PROVISIONING_WIFI_SSID String extra holding the ssid of the wifi network. String EXTRA_RESOURCE_IDS An integer array extra for ACTION_DEVICE_POLICY_RESOURCE_UPDATED to indicate which resource IDs (see ERROR(DevicePolicyResources.Drawables/android.app.admin.DevicePolicyResources.Drawables) and ERROR(DevicePolicyResources.Strings/android.app.admin.DevicePolicyResources.Strings)) have been updated. String EXTRA_RESOURCE_TYPE An int extra for ACTION_DEVICE_POLICY_RESOURCE_UPDATED to indicate the type of the resource being updated, the type can be EXTRA_RESOURCE_TYPE_DRAWABLE or EXTRA_RESOURCE_TYPE_STRINGRESOURCE. String EXTRA_RESOURCE_UPDATE_REASONTYPE A String resource type to indicate that a resource of type String is being updated. String EXTRA_RESULT_LAUNCH_INTENT An Intent result extra specifying the intent to be launched after provisioning is finalized, int FLAG_EVICT_CREDENTIAL_ENCRYPTION_Key flag for lockNow(int); also evict the user's credential encryption key from the keyring.



FLAG MANAGED CAN ACCESS PARENT Flag used by addCrossProfileIntentFilter(ComponentName, IntentFilter, int) to allow activities in the parent profile to access intents sent from the managed profile. int ID_TYPE_BASE_INFO Specifies that the device should attest its manufacturer details. int ID_TYPE_MEID Specifies that the device should attest its MEID. int ID_TYPE_SERIAL Specifies that the device should attest its serial number.

int INSTALLKEY_REQUEST_CREDENTIALS ACCESS Specifies that the calling app should be granted access to the installed credentials immediately. int INSTALLKEY_SET_USER_SELECTABLE Specifies that a user can select the key via the Certificate Selection prompt. int KEYGUARD_DISABLE_BIOMETRICS Disable all biometric authentication on the device. (e.g. PIN/Pattern/Password). int KEYGUARD_DISABLE_FEATURES All Disable all current and future keyguard customization. int KEYGUARD_DISABLE_FEATURES_NONE Widgets are enabled in keyguard. int KEYGUARD_DISABLE_FINGERPRINT Disable fingerprint authentication on keyguard secure screens (e.g. PIN/Pattern/Password). int KEYGUARD_DISABLE_IRIS Disable iris authentication on keyguard secure screens (e.g. PIN/Pattern/Password). int KEYGUARD_DISABLE_REMOTE_INPUT This constant was deprecated in API level 33. This flag was added in version Build.VERSION_CODES_N, but it never had any effect. int KEYGUARD_DISABLE_SECURE_CAMERA Disable the camera on secure keyguard screens (e.g. PIN/Pattern/Password) int KEYGUARD_DISABLE_SECURE_NOTIFICATIONS Disable showing all notifications on secure keyguard screens (e.g. PIN/Pattern/Password) int KEYGUARD_DISABLE_SHORTCUTS All Disable all keyguard shortcuts. int KEYGUARD_DISABLE_TRUST_AGENTS Disable trust agents on secure keyguard screens (e.g. PIN/Pattern/Password). int KEYGUARD_DISABLE_UNREDACTED_NOTIFICATIONS Only allow redacted notifications on secure keyguard screens (e.g. PIN/Pattern/Password) int KEYGUARD_DISABLE_WIDGETS All Disable all keyguard widgets. int LEAVE_ALL_SYSTEM_APPS_ENABLED Flag used by createAndManageUser(ComponentName, String, ComponentName, PersistableBundle, int) to specify that the newly created user should skip the disabled of system apps during provisioning. int LOCK_TASK_ACTIVITY_ALLOW_BACKGROUND Enable the background activities from the lock task mode. int LOCK_TASK_ACTIVITY_DIALOG Enable the global actions dialog during LockTask mode. int LOCK_TASK_FEATURE_HOME Enable the Home button during LockTask mode. int LOCK_TASK_FEATURE_KEYGUARD Enable the keyguard during LockTask mode. int LOCK_TASK_FEATURE_NONE Disable all configurable SystemUI features during LockTask mode. int LOCK_TASK_FEATURE_NOTIFICATIONS Enable notifications during LockTask mode. int LOCK_TASK_FEATURE_OVERVIEW Enable the Overview button and the Overview screen during LockTask mode. int LOCK_TASK_FEATURE_SYSTEM_INFO Enable the system info area in the status bar during LockTask mode. int MAKE_USER_EPHEMERAL Enable the ephemeral user mode.

[illegible]

The `DPC` can utilize this check to check for a device password first taking into consideration the device-wide policy only, and then prompt the user to either upgrade it to be fully compliant, or enroll a separate work profile. The device owner must be unlocked (`link` `DeviceManager#unlock()` or `link` `DeviceManager#unlockAndInstallPolicyManagerInstance()`) to perform this check. Returns `boolean` indicating whether the device password is required or not, false otherwise. Throws `SecurityException` if calling application is not a profile owner of a managed profile, or if this API is not called by the parent `DevicePolicyManager` instance. `IllegalStateException` if the user isn't unlocked. **EXTRA DEVICES REQUIRED** ONLY public boolean `isDevicePasswordRequired()` Returns true if the device administrator component is currently active (enabled) in the system. Parameters admin ComponentName: the administrator component to check for. This value cannot be null. Returns boolean true if admin is currently enabled in the system, false otherwise public boolean `isAffiliatedUser()` Returns whether the user is affiliated with the device. By definition, the user that the device owner runs on is always affiliated with the device. Any other user is considered affiliated with the device if the set specified by its profile owner via `setAffiliationIds(ComponentName, Set)` intersects with the device owners'. See also: `setAffiliationIds(ComponentName, Set)` public boolean `isApplicationHidden(ComponentName admin, String packageName)` Determine if a package is hidden. This function can be called by a device owner, profile owner, or by a delegate given the `DELEGATION_PACKAGE_ACCESS` scope via `setDelegatedScopes(ComponentName, String, List)`. This method can be called on the `DevicePolicyManager` instance, returned by `getParentProfileInstance(android.content.ComponentName)`, where the caller must be the profile owner of an organization-owned managed profile and the package must be a system package. If called on the parent instance, this will determine whether the package is hidden or unhidden in the personal profile. Starting from `Build.VERSION_CODES.UPSIDE_DOWN_CAKE`, the returned policy will be the current resolved policy rather than the policy set by the calling admin. Parameters admin ComponentName: Which `DeviceAdminReceiver` this request is associated with, or null if the caller is not a device admin. packageName String: The name of the package to retrieve the hidden status of. Returns boolean true if the package is hidden, false otherwise. Throws `SecurityException` if the caller is not a device owner, profile owner, or a delegate given the `DELEGATION_PACKAGE_ACCESS` scope via `setDelegatedScopes(ComponentName, String, List)`. Parameters admin ComponentName: Which `DeviceAdminReceiver` this request is associated with, or null if the caller is not a device admin. Returns whether Common Criteria mode is currently enabled. Device owner and profile owner of an organization-owned managed profile can query its own Common Criteria mode setting by calling this method with its admin ComponentName. Any caller can obtain the aggregated device-wide Common Criteria mode state by passing null as the admin argument. Parameters admin ComponentName: Which `DeviceAdminReceiver` this request is associated with. Null if the caller is not a device admin. This value may be null. Returns boolean true if Common Criteria mode is enabled, false otherwise. public boolean `isDeviceOwnerApp(String packageName)` Used to determine if a particular package has been registered as a Device Owner app. A device owner app is a special device admin that cannot be deactivated by the user, once activated as a device admin. It also cannot be uninstalled. To check whether a particular package is currently registered as the device owner app, pass in the package name from `Context#getPackageName()` to this method. This is useful for device admin apps that want to check whether they are also registered as the device owner app. The exact mechanism by which a device admin app is registered as a device owner app is defined by the setup process. Parameters packageName String: the package name of the app, to compare with the registered device owner app, if any. Returns boolean whether or not the package is registered as the device owner app. public boolean `isEphemeralUser(ComponentName admin)` Checks if the profile owner is running in an ephemeral user. Parameters admin ComponentName: Which `DeviceAdminReceiver` this request is associated with. This value cannot be null. Returns boolean whether the profile owner is running in an ephemeral user. public boolean `isKeyPairGrantedToWifiAuth(String alias)` Called by a device or profile owner, or delegated certificate chooser (an app that has been delegated the `DELEGATION_CERT_SELECTION` privilege), to query whether a `KeyChain` key pair can be used for authentication to Wi-Fi network. This value cannot be null. Returns boolean true if the key pair can be used, false otherwise. Throws `SecurityException` if the caller is not a device owner, a profile owner or delegated certificate chooser. See also: `grantKeyPairToWifiAuth(String)` public boolean `isLockTaskPermitted(String pkg)` This function lets the caller know whether the given component is allowed to start the lock task mode. Parameters pkg String: The package to check public boolean `isLogoutEnabled()` Returns whether logout is enabled by a device owner. Returns boolean true if logout is enabled by device owner, false otherwise. public boolean `isMasterVolumeMuted(ComponentName admin)` Called by profile or device owner to check whether the global volume mute is on or off. Parameters admin ComponentName: Which `DeviceAdminReceiver` this request is associated with. This value cannot be null. Returns boolean true if global volume is muted, false if it's not. Throws `SecurityException` if admin is not a device or profile owner. public boolean `isNetworkLoggingEnabled(ComponentName admin)` Return whether network logging is enabled by a device owner or profile owner of a managed profile. Returns boolean true if network logging is enabled by device owner or profile owner, false otherwise. Throws `SecurityException` if admin is not a device owner or profile owner and caller has no `MANAGE_USERS` permission public boolean `isOrganizationOwnedDeviceWithManagedProfile()` (Apps can use this method to find out if the device was provisioned as organization-owend device with a managed profile. This, together with whether the device has a device owner (by calling `isDeviceOwnerApp(String)`), could be used to learn whether the device is owned by an organization or an individual: If this method returns `OR isDeviceOwnerApp(String)` returns `true` (for any package), then the device is owned by an organization. Otherwise, if owned by an individual, it returns boolean true if the device was provisioned as organization-owned device, false otherwise. public boolean `isUnlockedDevice()` Returns whether the device is unlocked. Before `Build.VERSION_CODES.TIRAMISU`, this method can be called by the profile owner of a managed profile or device owner. Returns boolean whether preferential network service is enabled. public boolean `isProfileOwnerApp(String packageName)` Used to determine if a particular package is registered as the profile owner for the user. A profile owner is a special device admin that has additional privileges within the profile. Parameters packageName String: The package name of the app to compare with the registered profile owner. Returns boolean Whether or not the package is registered as the profile owner. public boolean `isSafeOperation(int reason)` Checks if it's safe to run operations that can be affected by the given reason. Note: notice that the operation safety state might change between the time this method returns and the operation's method is called, so calls to the latter could still throw a `UnsafeStateException` even when this method returns true. Returns boolean whether it's safe to run operations that can be affected by the given reason. public boolean `isSecurityLoggingEnabled(ComponentName admin)` Return whether security logging is enabled or not by the admin. Can only be called by the device owner or a profile owner of an organization-owned managed profile, otherwise a `SecurityException` will be thrown. Parameters admin ComponentName: Which device admin this request is associated with. Null if the caller is not a device admin. Returns boolean true if security logging is enabled, false otherwise. public boolean `isUnlockedDevice()` Returns whether the device is unlocked. Before `Build.VERSION_CODES.TIRAMISU`, this method can be called by the profile owner of a managed profile or device owner. Returns boolean whether preferential network service is enabled. public boolean `isProfileOwnerApp(String packageName)` Used to determine if a particular package is registered as the profile owner for the user. 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Returns boolean true if security logging is enabled, false otherwise. public boolean `isUnlockedDevice()` Returns whether the device is unlocked. Before `Build.VERSION_CODES.TIRAMISU`, this method can be called by the profile owner of a managed profile or device owner. Returns boolean whether preferential network service is enabled. public boolean `isProfileOwnerApp(String packageName)` Used to determine if a particular package is registered as the profile owner for the user. A profile owner is a special device admin that has additional privileges within the profile. Parameters packageName String: The package name of the app to compare with the registered profile owner. Returns boolean Whether or not the package is registered as the profile owner. public boolean `isSafeOperation(int reason)` Checks if it's safe to run operations that can be affected by the given reason. 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Returns boolean whether preferential network service is enabled. public boolean `isProfileOwnerApp(String packageName)` Used to determine if a particular package is registered as the profile owner for the user. A profile owner is a special device admin that has additional privileges within the profile. Parameters packageName String: The package name of the app to compare with the registered profile owner. Returns boolean Whether or not the package is registered as the profile owner. public boolean `isSafeOperation(int reason)` Checks if it's safe to run operations that can be affected by the given reason. Note: notice that the operation safety state might change between the time this method returns and the operation's method is called, so calls to the latter could still throw a `UnsafeStateException` even when this method returns true. Returns boolean whether it's safe to run operations that can be affected by the given reason. public boolean `isSecurityLoggingEnabled(ComponentName admin)` Return whether security logging is enabled or not by the admin. Can only be called by the device owner or a profile owner of an organization-owned managed profile, otherwise a `SecurityException` will be thrown. Parameters admin ComponentName: Which device admin this request is associated with. Null if the caller is not a device admin. Returns boolean true if security logging is enabled, false otherwise. public boolean `isUnlockedDevice()` Returns whether the device is unlocked. Before `Build.VERSION_CODES.TIRAMISU`, this method can be called by the profile owner of a managed profile or device owner. Returns boolean whether preferential network service is enabled. public boolean `isProfileOwnerApp(String packageName)` Used to determine if a particular package is registered as the profile owner for the user. 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ComponentName: Which DeviceAdminReceiver this request is associated with. Null if the caller is not a device admin. This value may be null. **Throws SecurityException** if the caller is not a device owner. public void setWifiSsidPolicy (WifiSsidPolicy) Called by device owner or profile owner of an organization-owned managed profile to specify the Wi-Fi SSID policy (WifiSsidPolicy). Wi-Fi SSID policy specifies the SSID restriction the network must satisfy in order to be eligible for a connection. Providing a null policy results in the deactivation of the SSID restriction Parameters policy WifiSsidPolicy: Wi-Fi SSID policy This value may be null. public int startUserInBackground (ComponentName admin, UserHandle userHandle) Called by a device owner to start the specified secondary user in background. Parameters admin ComponentName: Which DeviceAdminReceiver this request is associated with. This value cannot be null. userHandle UserHandle: the user to be started in background. This value cannot be null. Returns int one of the following result codes: UserManager#USER OPERATION ERROR UNKNOWN, UserManager#USER OPERATION SUCCESS, UserManager#USER OPERATION ERROR MANAGED PROFILE, UserManager#USER OPERATION ERROR MAX RUNNING USERS, Value is UserManager.USER OPERATION SUCCESS, UserManager.USER OPERATION ERROR UNKNOWN, UserManager.USER OPERATION ERROR MANAGED PROFILE. SecurityException if admin is not a device owner. See also: getSecondaryUsers(ComponentName) public int stopUser (ComponentName admin, UserHandle userHandle) Called by a device owner to stop the specified secondary user. Parameters admin ComponentName: Which DeviceAdminReceiver this request is associated with. This value cannot be null. userHandle UserHandle: the user to be stopped. This value cannot be null. Returns int one of the following result codes: UserManager#USER OPERATION ERROR UNKNOWN, UserManager#USER OPERATION SUCCESS, UserManager#USER OPERATION ERROR MANAGED PROFILE, UserManager.USER OPERATION ERROR MAX RUNNING USERS. UserManager#USER OPERATION ERROR CURRENT USER Value is UserManager.USER OPERATION SUCCESS, UserManager.USER OPERATION ERROR UNKNOWN, UserManager.USER OPERATION ERROR MANAGED PROFILE, UserManager.USER OPERATION ERROR MAX RUNNING USERS. UserManager.USER OPERATION ERROR CURRENT USER, UserManager.USER OPERATION ERROR LOW STORAGE, UserManager.USER OPERATION ERROR MAX USERS, or android.os.UserManager.USER OPERATION ERROR USER ACCOUNT ALREADY EXISTS Throws SecurityException if admin is not a device owner. See also: getSecondaryUsers(ComponentName) public void transferOwnership (ComponentName admin, ComponentName target, PersistableBundle bundle) Changes the current administrator to another one. All policies from the current administrator are migrated to the new administrator. The whole operation is atomic - the transfer is either complete or not done at all. Depending on the current administrator (device owner, profile owner), you have the following expected behaviour: A device owner can only be transferred to a new device owner A profile owner can only be transferred to a new profile owner Use the bundle parameter to pass data to the new administrator. The data will be received in the DeviceAdminReceiver#onTransferOwnershipComplete(Context, PersistableBundle) callback of the new administrator. The transfer has failed if the original administrator is still the corresponding owner after calling this method. The incoming target administrator must have the tag inside the tags in the xml file referenced by DeviceAdminReceiver#DEVICE_ADMIN_META_DATA. Otherwise an IllegalArgumentException will be thrown. Parameters admin ComponentName: which DeviceAdminReceiver this request is associated with. This value cannot be null. target ComponentName: which DeviceAdminReceiver we want the new administrator to be. This value cannot be null. bundle PersistableBundle: data to be sent to the new administrator. This value may be null. public void uninstallAllUserCaCerts (ComponentName admin) Uninstalls all custom trusted CA certificates from the profile. Certificates installed by means other than device policy will also be removed, except for system CA certificates. Parameters admin ComponentName: Which DeviceAdminReceiver this request is associated with, or null if calling from a delegated certificate installer. public boolean updateOverrideApn (ComponentName admin, int apnId, ApnSetting apnSetting) Called by device owner or managed profile owner to update an override APN. This method may return false if there is no override APN with the given apnId. This method may also return false if apnSetting conflicts with an existing override APN. Update the existing conflicted APN instead. See addOverrideApn(ComponentName, ApnSetting) for the definition of conflict. Before Android version Build.VERSION_CODES.TIRAMISU: Only device owners can update APNs. Starting from Android version Build.VERSION_CODES.TIRAMISU: Both device owners and managed profile owners can update enterprise APNs (ApnSetting#TYPE_ENTERPRISE), while only device owners can update other type of APNs. Parameters admin ComponentName: which DeviceAdminReceiver this request is associated with This value cannot be null. apnId int: the id of the override APN to update apnSetting ApnSetting: the override APN to update This value cannot be null. Returns boolean true if the required override APN is successfully updated, false otherwise. Throws SecurityException if request is for enterprise APN admin is either device owner or profile owner and in all other types of APN if admin is not a device owner. See also: setOverrideApnsEnabled(ComponentName, boolean) public void wipeData (int flags, CharSequence reason) Ask that all user data be wiped. If called as a secondary user or managed profile, the user itself and its associated user data will be wiped. In particular, if the caller is a profile owner of an organization-owned managed profile, calling this method will relinquish the device for personal use, removing the managed profile and all policies set by the profile owner. Calling this method from the primary user will only work if the calling app is targeting SDK level Build.VERSION_CODES#TIRAMISU or below, in which case it will cause the device to reboot, erasing all device data - including all the secondary users and their data - while booting up. If an app targeting SDK level Build.VERSION_CODES#UPSIDE_DOWN_CAKE and above is calling this method from the primary user or last full user, IllegalStateException will be thrown. If an app wants to wipe the entire device irrespective of which user they are from, they should use wipeDevice(int) instead. See also: wipeDevice(int)wipeData(int) Android Device Policy is a built-in device policy controller enabling IT administrators to directly manage Android devices via enterprise mobility management (EMM) providers that use the Android Management API. In addition to configuring the work profile or fully managed device, Android Device Policy also provides employees visibility into the policies enforced by IT admins, and helps users resolve any policy requirements that require employee interaction, like setting a password or updating to the latest Android version. To provide IT administrators with effective management and troubleshooting tools, Android Device Policy collects certain information from your device. What information is collected and how it is shared with you IT administrator depends on the management set configured on your device, as well as whether you or your organization owns the device. If your device has a work profile, your organization can view and manage your work apps and data. Your personal apps, data, and usage details aren't visible or accessible to your organization or Android Device Policy. Learn more about what data Android Device Policy collects about your work profile on behalf of your IT administrator. If your device is fully managed, your organization can view and manage apps and data throughout the entire device. Learn more about the data on your fully managed device that the Android Device Policy makes visible to your IT administrator. Regardless of which management set you use, Android Device Policy also collects crash diagnostics, temporary remote session-level logs, and other performance data about the Android Device Policy app for aggregated analytics and troubleshooting purposes. All the data Android Device Policy collects is encrypted in transit, both back to Google and to your organization's EMM. Related Articles: What policies is my organization enforcing on my device? Full device management What is a device policy controller? Enterprise features & capabilities