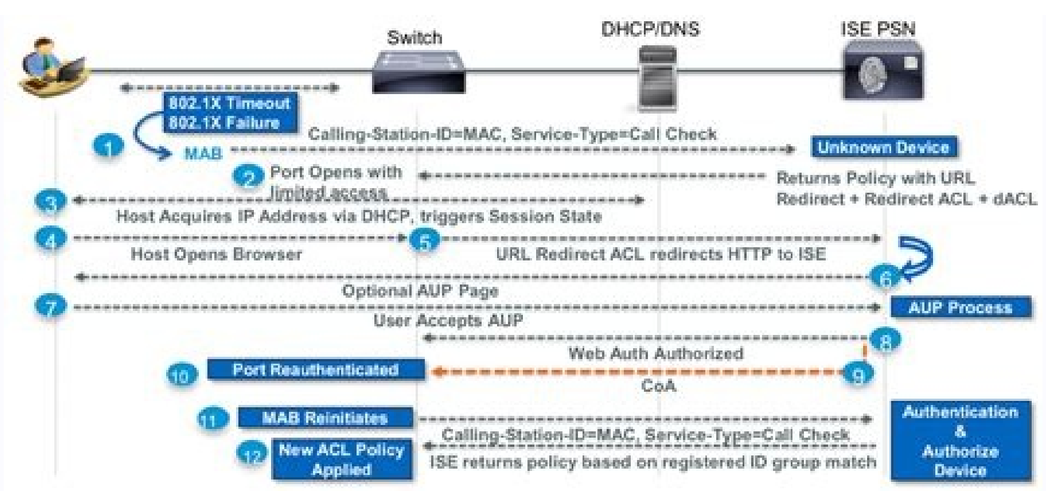
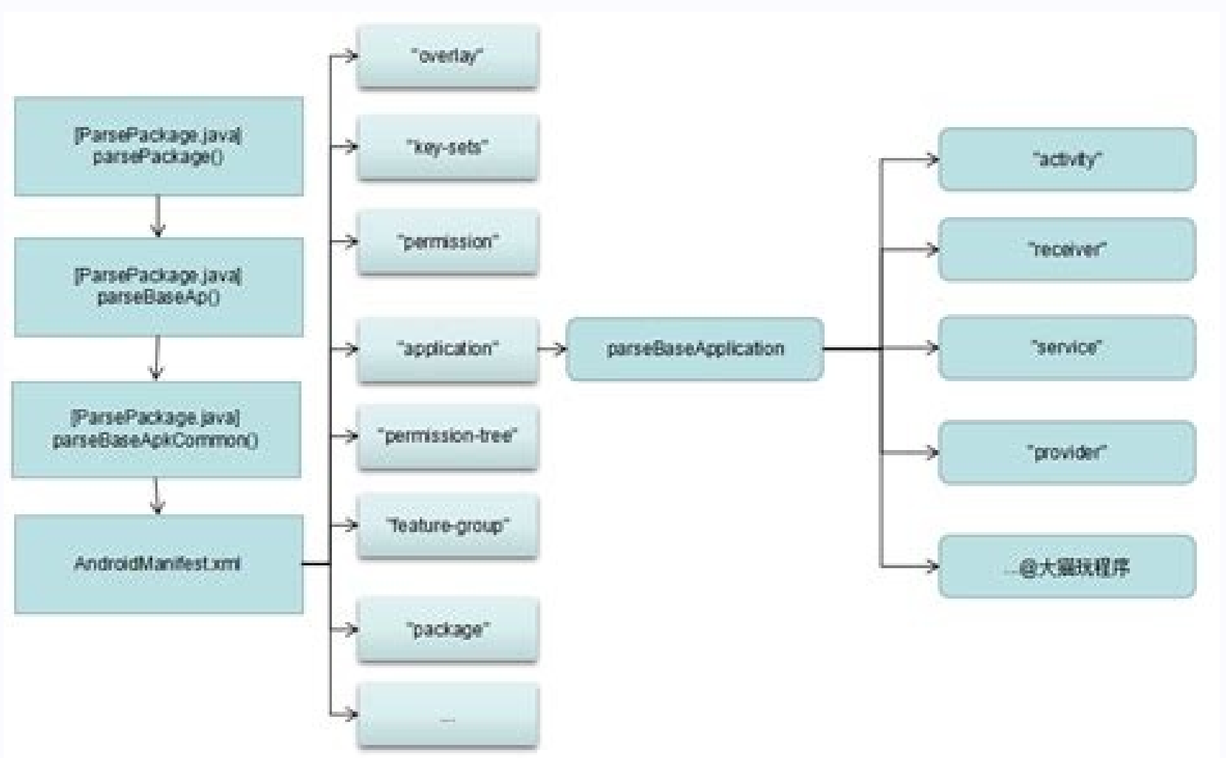
Android provisioning process


Switch
DHCP/DNS
ISE PSN
802.1X Timeout
802.1X Failure
1
MAB
Calling-Station-ID=MAC, Service-Type=Call Check
Unknown Device
2
Port Opens with limited access
Returns Policy with URL Redirect + Redirect ACL + dACL
3
Host Acquires IP Address via DHCP, triggers Session State
4
Host Opens Browser
5
URL Redirect ACL redirects HTTP to ISE
6
Optional AUP Page
7
AUP Process
User Accepts AUP
8
Web Auth Authorized
10
Port Reauthenticated
9
CoA
11
MAB Reinitiates
Authentication & Authorize Device
Calling-Station-ID=MAC, Service-Type=Call Check
12
New ACL Policy Applied
ISE returns policy based on registered ID group match


[ParsePackage.java] parsePackage()
[ParsePackage.java] parseBaseApk()
[ParsePackage.java] parseBaseApkCommon()
AndroidManifest.xml
"overlay"
"key-sets"
"permission"
"application"
parseBaseApplication
"permission-tree"
"feature-group"
"package"
...
"activity"
"receiver"
"service"
"provider"
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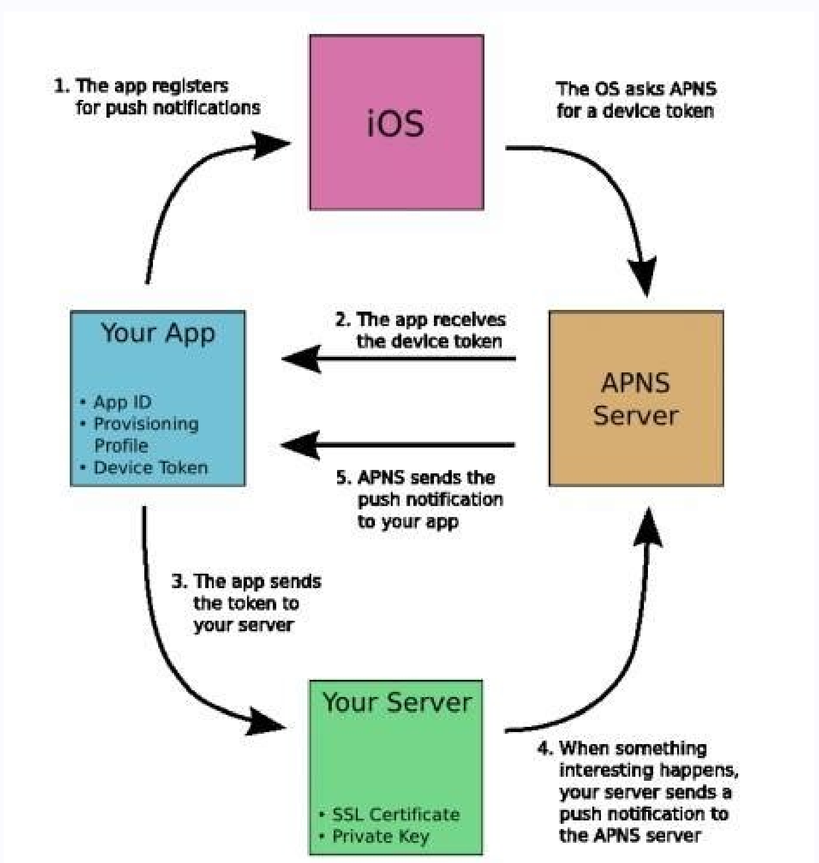
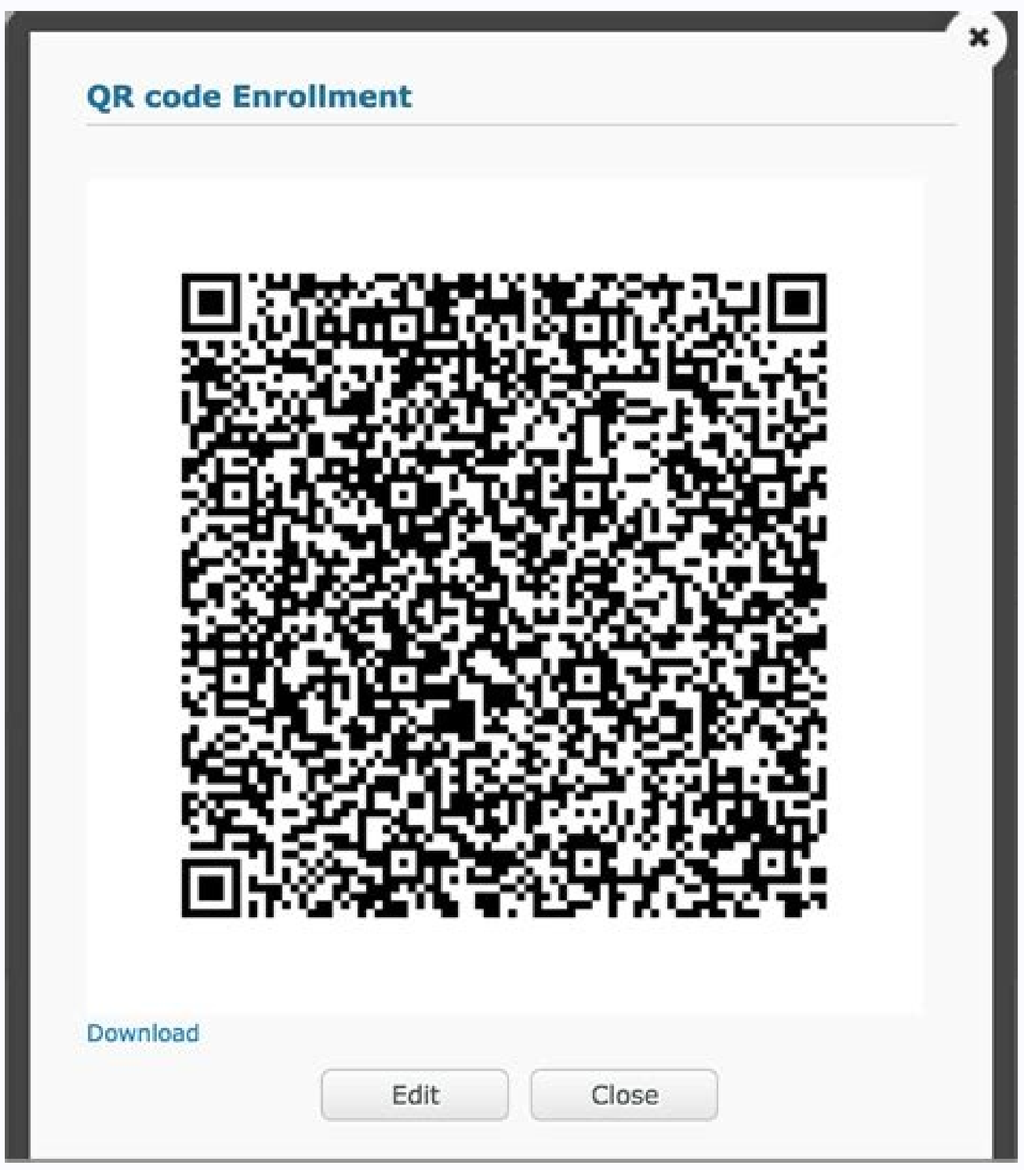

1. The app registers for push notifications
iOS
The OS asks APNS for a device token
Your App
• App ID
• Provisioning Profile
• Device Token
2. The app receives the device token
APNS Server
5. APNS sends the push notification to your app
3. The app sends the token to your server
Your Server
• SSL Certificate
• Private Key
4. When something interesting happens, your server sends a push notification to the APNS server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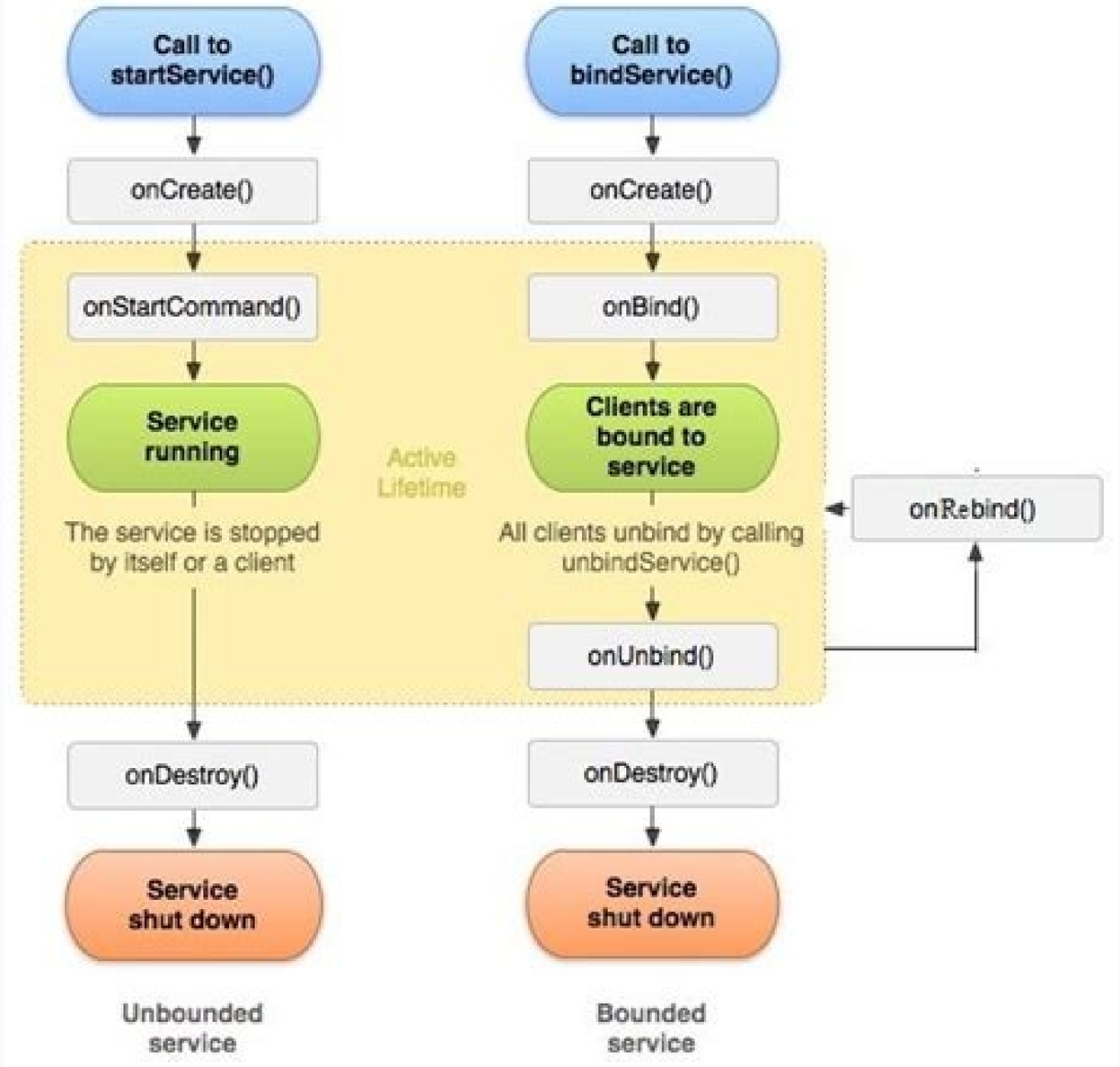

Related articlesWhen provisioning a device using our provisioning app your device is locked down in the most secure way possible. Kiosk Browser becomes the "device owner" meaning that it is granted more permissions vs a standard Kiosk Browser installation. Key Features:Streamlined setup process (embed licence keys or remote management registration key)Automatically grant majority of permissionsSet the default launcher programmatically without user interventionHide home button and recents button/block access to home and recents hardware buttons (Android 6.0 or higher)Block access to the status bar (top of the screen) using official methods, rather than workaroundUpdate applications (Update Manager via remote management) or via our JavaScript interface, Android 6.0 or higherReboot device on schedule (Android 7.0 or higher)Disable lock screen programaticallyBlock launching of applications not in app drawer (apps launched from JavaScript unaffected)Disable booting into safe mode (Android 6.0 or higher)Prevents Kiosk Browser from being uninstalled without factory resetAndroid 6.0 or higher supported To start the provisioning process your device (the target device you want to install Kiosk Browser on) either needs to be brand new out of the box or factory reset.Method 1. QR Code (Android 7.0 or higher)The QR code method was introduced in Android 7.0, it requires that your device has a camera.Boot up your new / factory reset deviceTap the welcome screen 6 times until the QR wizard startsConnect to your WiFi networkGenerate a QR code via our online QR Code GeneratorScan the QR codeYour device will then download and install Kiosk BrowserFollow the on-screen stepsMethod 2. NFCGoogle introduced the provisioning method when Android 5.0 was released, it was generally designed to use NFC to provision. NFC is required on both devices used in the process.Install Kiosk Browser Provisioner on a device that will not be running Kiosk Browser (source device).Launch Kiosk Browser ProvisionerSelect target Android versionChange APK Url if using a custom build (otherwise leave default)Select the locale you wish the target device to use (default is probably correct)Enter optional parameters such as registration key or licence keyTap compute checksum and wait for the checksum to be returnedBoot up your new device (factory reset or new out of the box)Bump both devices together until you hear the "bump/nfc sound"Follow the on-screen stepsRepeat steps for each device by bumping the devices togetherMethod 3. ADB (set device owner via ADB command)Only use if the previous options are not possible.This option is complicated and long winded, BUT at the end of it your device will be running Kiosk Browser in device owner mode and you will benefit from all the features. Only for advanced users who know how to communicate with a device via ADB.Boot up your new / factory reset deviceFollow the setup wizard but DO NOT add a Google Account at this stage, otherwise provisioning will failInstall Kiosk Browser via APKEnable USB debugging on your deviceConnect the device via USB cableExecute the following command: adb shell dpm set-device-owner com.procoit.kioskbrowser/.receiver.AdminReceiverIf using a custom build use the following command adb shell dpm set-device-owner com.mycompany.browser/com.procoit.kioskbrowser.receiver.AdminReceiver and replace com.mycompany.browser with your custom package name.Once the command has executed it should state success or failure, if successful Kiosk Browser is now provisionedIf you have purchased a custom build you will need to change com.procoit.kioskbrowser to your package name i.e. com.mycompany.browser, if unsure please contact us.Updated on: 11 / 04 / 2022 In Android 11, the way COPE, the means of providing personal use on a corporate phone, has changed. Prior to Android 11, COPE is implemented by leveraging work profiles on fully managed devices (WPoFMD). This is to say the device is provisioned as a fully managed device, in which all fully managed policies and the associated device-wide visibility applies, and then a work profile is inflated on top. Work apps and data are pushed to the work profile, leaving the parent profile for personal use. Following successful enrolment the device remains fully under control of the organisation, with limitations to policies and visibility only depending on how the EMM has integrated the WPoFMD solution set. This means the organisation can typically fully control the device, including account types, app installation, network settings and more. Furthermore, the organisation may have visibility of installed applications, network logs and other device statistics that identify personal usage. From Android 11, COPE is instead leveraged by enhancing the current work profile deployment scenario. Often associated with BYOD deployments due to it's lack of parent profile (device) policies and visibility, the enhanced work profile experience, officially named work profiles on company owned devices, or WPoCOD, will offer additional policies which can be leveraged in the parent profile to offer more control, but at the cost of corporate visibility. In Android 10, Google introduced a new provisioning process for deploying work profiles on corporate owned devices. Through a supported DPC (EMM agent) it is possible to provision either fully managed, or work profile only when doing so via zero-touch or QR code. NFC and DPC identifier have not yet had support introduced. If work profile provisioning is enabled, provisioning completes with a work profile on a device which is not fully managed, with prompts for the end user to complete aspects of the wizard that were not completed during provisioning to personalise the device. In Android 11 this process is further expanded to not only provision a device with a work profile, but as it's done so through corporate provisioning methods (ZT, QR) the device is flagged as corporate owned. In setting this flag, which again is automated with a supported EMM vendor and the relevant configuration in place, the work profile is enhanced with a number of additional device-wide policies which can be leveraged. If a device is not provisioned through zero-touch or QR, this process is not undertaken and the device will be provisioned fully managed. Likewise if the EMM vendor does not support this provisioning flow introduced with Android 10, organisations will only have the option to provision fully managed from within the EMM. No. While it's expected typical wording changes during the provisioning process are implemented in 11, the actual flow of setting up a COPE device, be that WPoFMD of WPoCOD, is practically the same for end users. The device will undergo zero-touch or QR provisioning like a typical WPoFMD deployment, and will be provided messaging consistent with what's seen in Android 10 and below, setting up your device, setting up the work profile. It is primarily a back-end change. Yes. Expect far less visibility from COPE devices, as they're no longer fully managed, but essentially expanded work profile devices. App installation reports, app lists, some device details, usage statistics and more will no longer be possible to collect as Google deem this type of data to be personal and not to be reported to the organisation. Expect fewer device controls also. Anything that could potentially be deemed as an invasion of privacy will no longer be supported, details of which will become more readily available as Google edges closer to the Android 11 release. Furthermore, while WPoFMD deployments supported the installation of apps onto the parent profile through the EMM (APK deployment), this will no longer be possible in 11, as it adopts the same limitation as a typical work profile deployment. A number of policies are no longer possible to apply to the parent profile, including: APN Persistent preferred activities (default apps for different things) Parent profile app management (install, uninstall, managed configs, report, etc) Device wide VPN Certificate management Password reset Network logging Factory reset control Your EMM provider will have a full overview of what policies can be applied in 11 to what deployment type. Following an upgrade to Android 11, the device can either migrate to the new enhanced work profile to retain a COPE use case, at which point any policies applied that are no longer supported will cease to apply to the device, or optionally the device can become fully managed only, migrating effectively from COPE to COBO. Organisations can choose which path to take. Any existing parent profile applications may become unmanaged, migrate to the work profile or be removed, depending on the EMM implementation should the device migrate to COPE in 11, obviously this will not happen if the device migrates to fully managed (COBO) No. In Android 11 this will throw and exception and fail. It is imperative therefore that EMM vendors update their solutions to prevent the inflation of a work profile on a fully managed device for Android 11 and above, while allowing it still to be utilised with Android 10 and lower. If an EMM has failed to undertake this prep it's likely organisations will see partially or fully failed COPE deployments. There may be instances where OEMs opt to maintain support for inflating a work profile on a fully managed device through their own platform modifications, and it appears Samsung is one of the first OEMs to attempt to support this, which can be read in more detail on Samsung's website. If your organisation leverages Samsung, it would be worth taking a look at Knox Configure. For OEMs leveraging closer to vanilla Android implementations, this usecase will be very difficult to replicate from Android 11. Yes. Utilising Android Enterprise system update management, the deployment of a system update can be delayed by up to 90 days. If your OEM offers additional release management tools, these could be leveraged also to maintain a specific version of the Android OS (such as E-FOTA). At an absolute push, network restricions can be put in place to block connectivity to the OEM download server, be that OEM-specific, like E-FOTA, or more generic, like Google's GOTA service leveraged by many Android OEMs today. Note however this is not a permanent solution, and it will be necessary to broach this change at some point. As a fully managed device without the work profile is a single-profile deployment, allowing personal applications to sit alongside corporate applications poses security and DLP concerns. It is difficult, though not impossible, to adequately monitor devices to ensure an end user hasn't installed a personal dropbox-type application alongside corporate Google Drive or OneDrive, and is not possible, unless prevented via app policies, to prevent the movement of corporate data from work to personal applications as it would be between profiles in a WPoFMD deployment. If an organisation has little to no concern with regards to the above, then absolutely; simply enable Google accounts via policy and your end-users will be able to add their own accounts to gain full access to the Play Store; app black/whitelists, as well as compliance policies, can still apply to prevent the usage of prohibited applications. Flash a device with 11 and try WPoFMD enrolments to discern the changes from enrolling with Android 10. Perform a fastboot update without wiping user data (no -w flag) on an enrolled Android 10 device to understand the migration process.

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