

Managing Android devices - notes from the field

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NORDIC

— VIRTUAL SUMMIT —

Notes from the field

- Conceptual & strategic to practical
- Beginner and a veteran should get something from this session
- As the session progress we will get more technical

This session

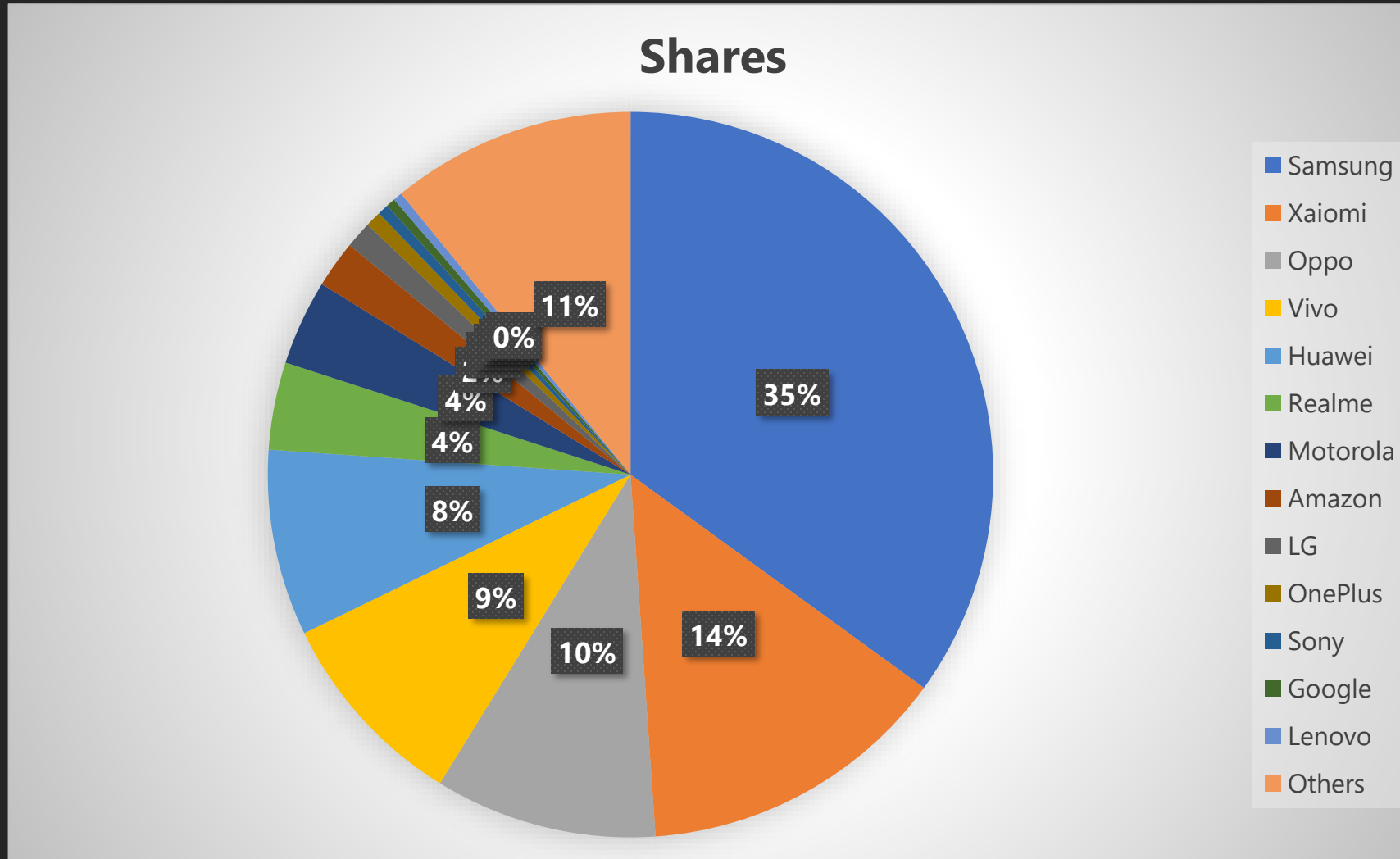
- Understanding the Android ecosystem
- Enrollment profiles / Management modes
 - How to choose
- Android Enterprise
- Demoes
 - Test DPC
 - OEMConfig
 - Filters
- Q&A

The more you know,
the more you know you don't
know

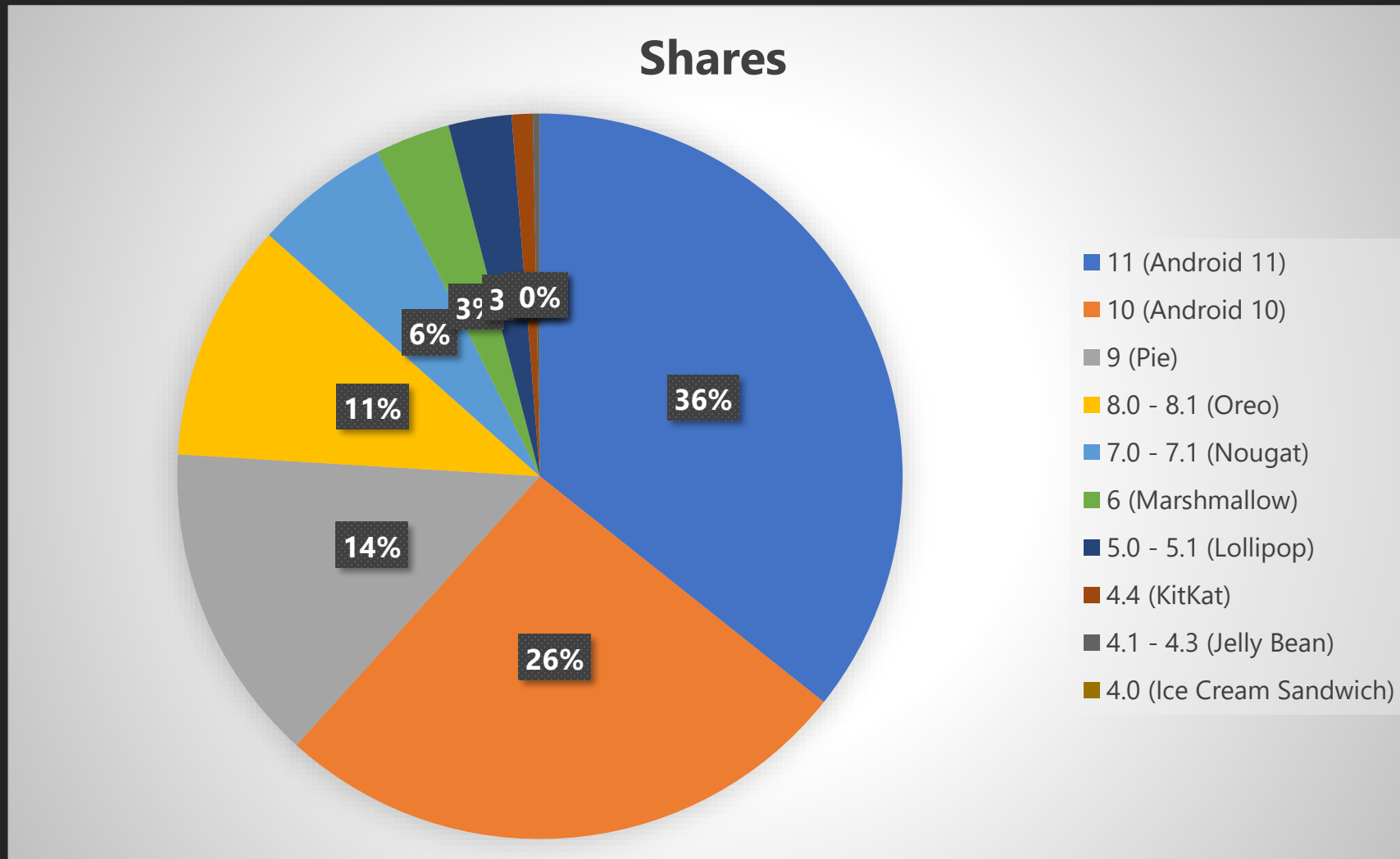
Android



Android manufacturer landscape



Android version landscape



Supported Android versions MEM

- MDM
- Android 8.x (Oreo) and higher
- Except for Microsoft Teams Android devices



Supported Android versions MEM

- MAM (App protection policies)
- Android 9.0 (Pie) and higher



Link

- [Operating systems and browsers supported by Microsoft Intune | Microsoft Docs](#)

Users and their pet



Enrollment Profiles / Management modes

Enrollment Profiles



Personally-owned devices with work profile

Manage personal enrollments with work profiles.



Corporate-owned dedicated devices

Manage device owner enrollments for kiosk and task devices.



Corporate-owned, fully managed user devices

Manage device owner enrollments for user devices.



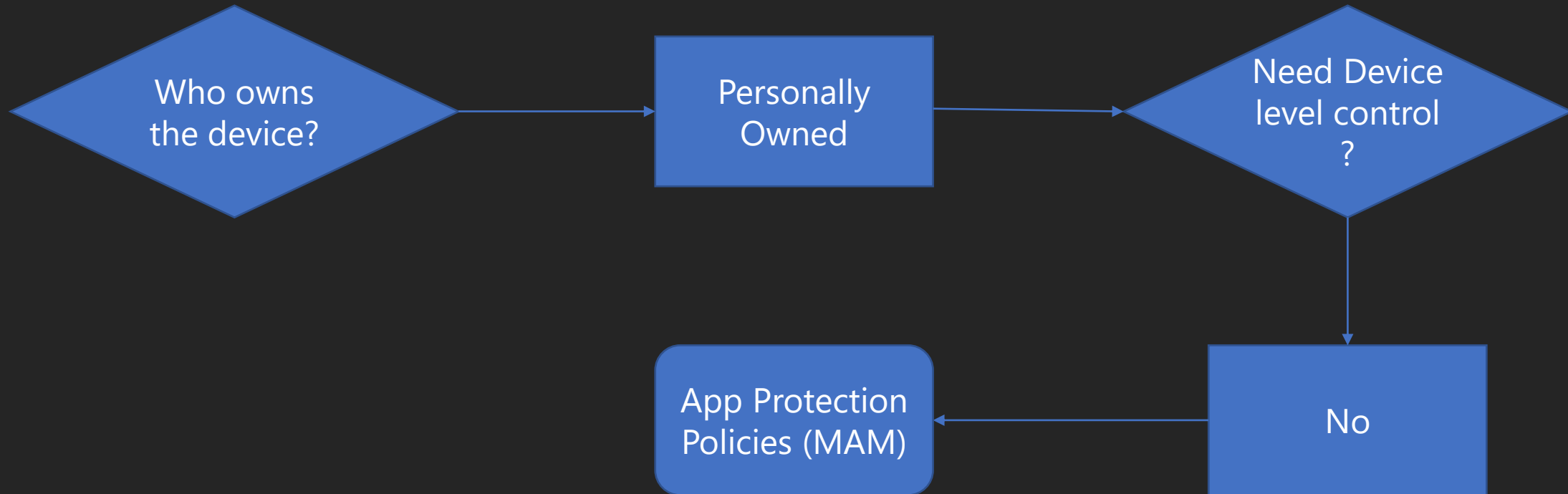
Corporate-owned devices with work profile

Manage enrollments for corporate devices with work profiles.

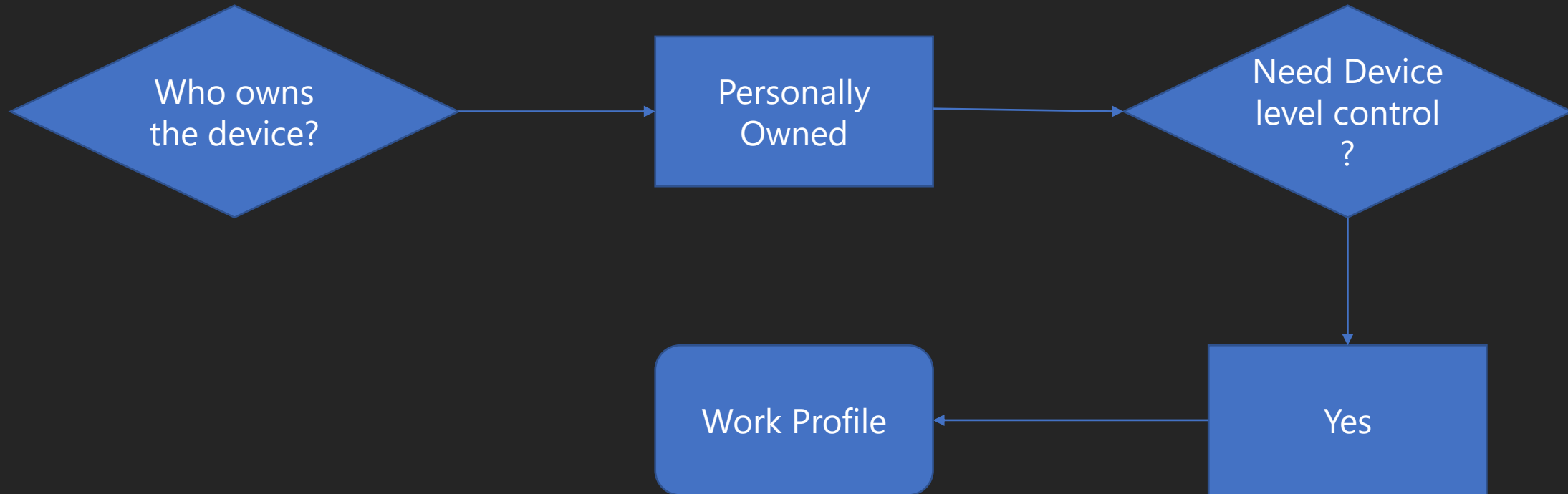
BYOD

- App Protection Policies (MAM) + Conditional Access
- Personal Work Profile

App protection Policies



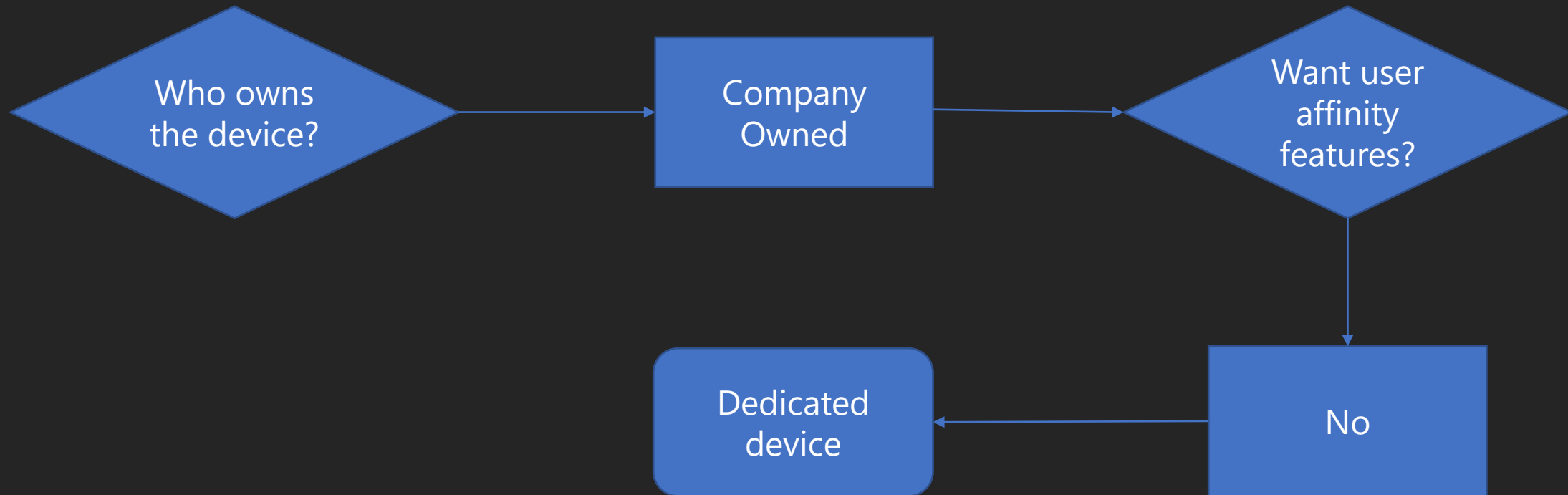
Personal Work profile



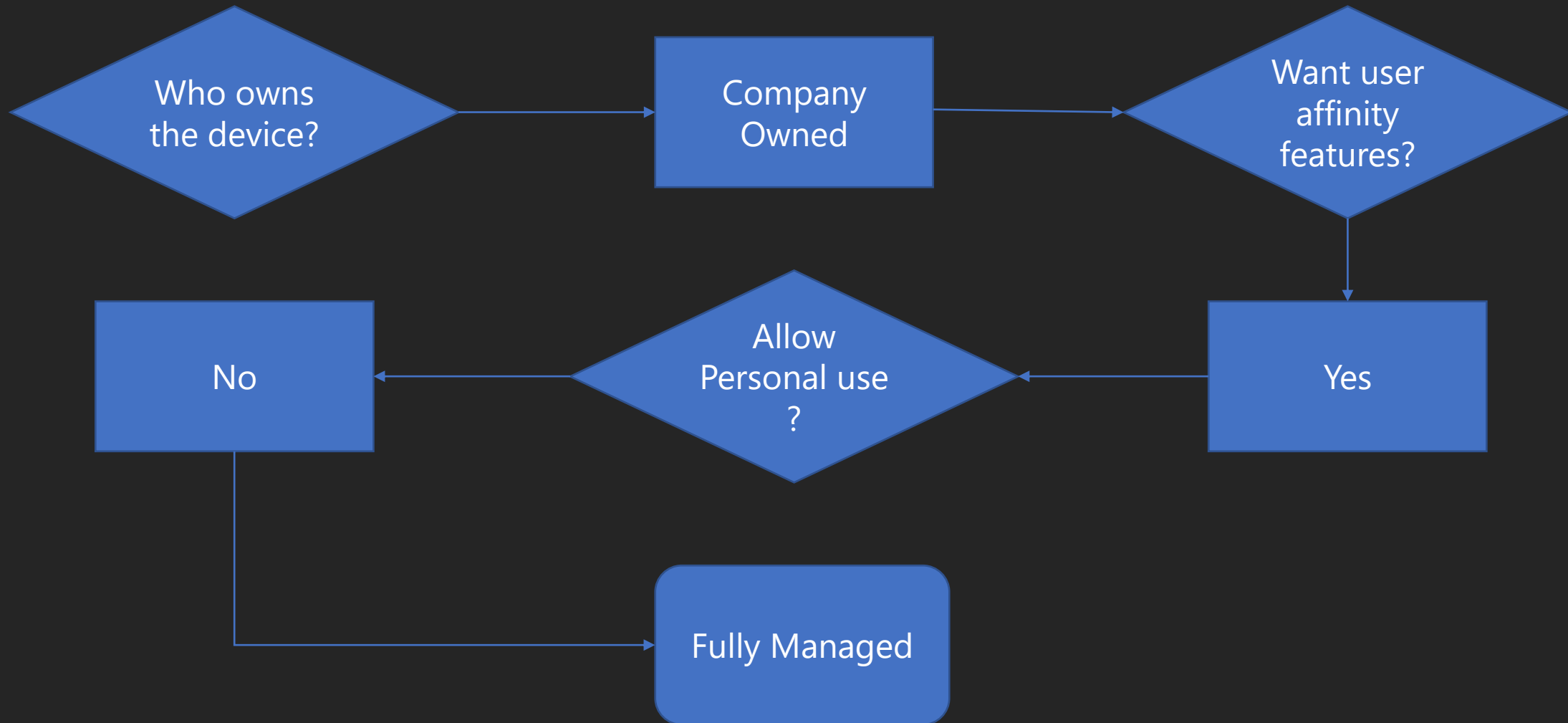
Company owned

- Dedicated Device
- Fully Managed
- Corporate Owned device with Work Profile

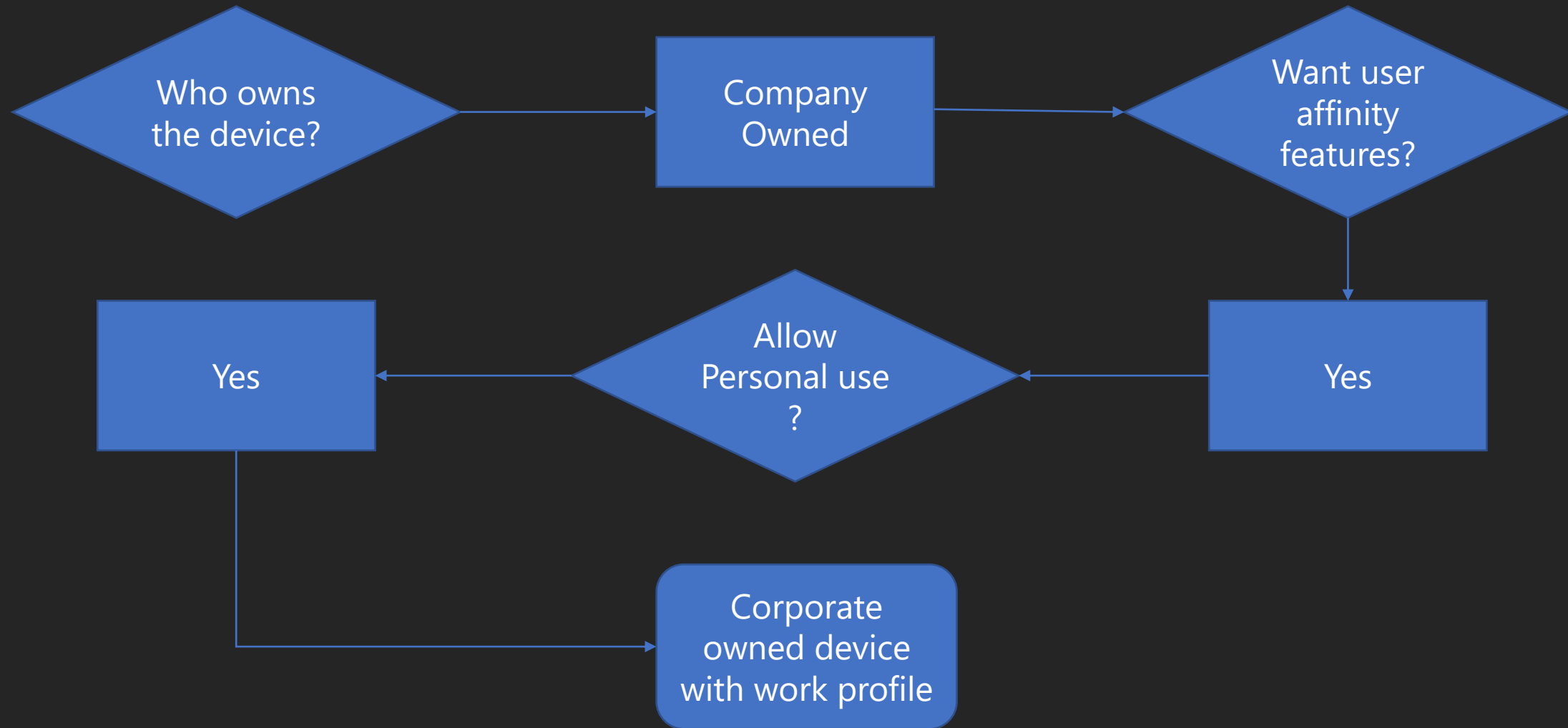
Dedicated Device

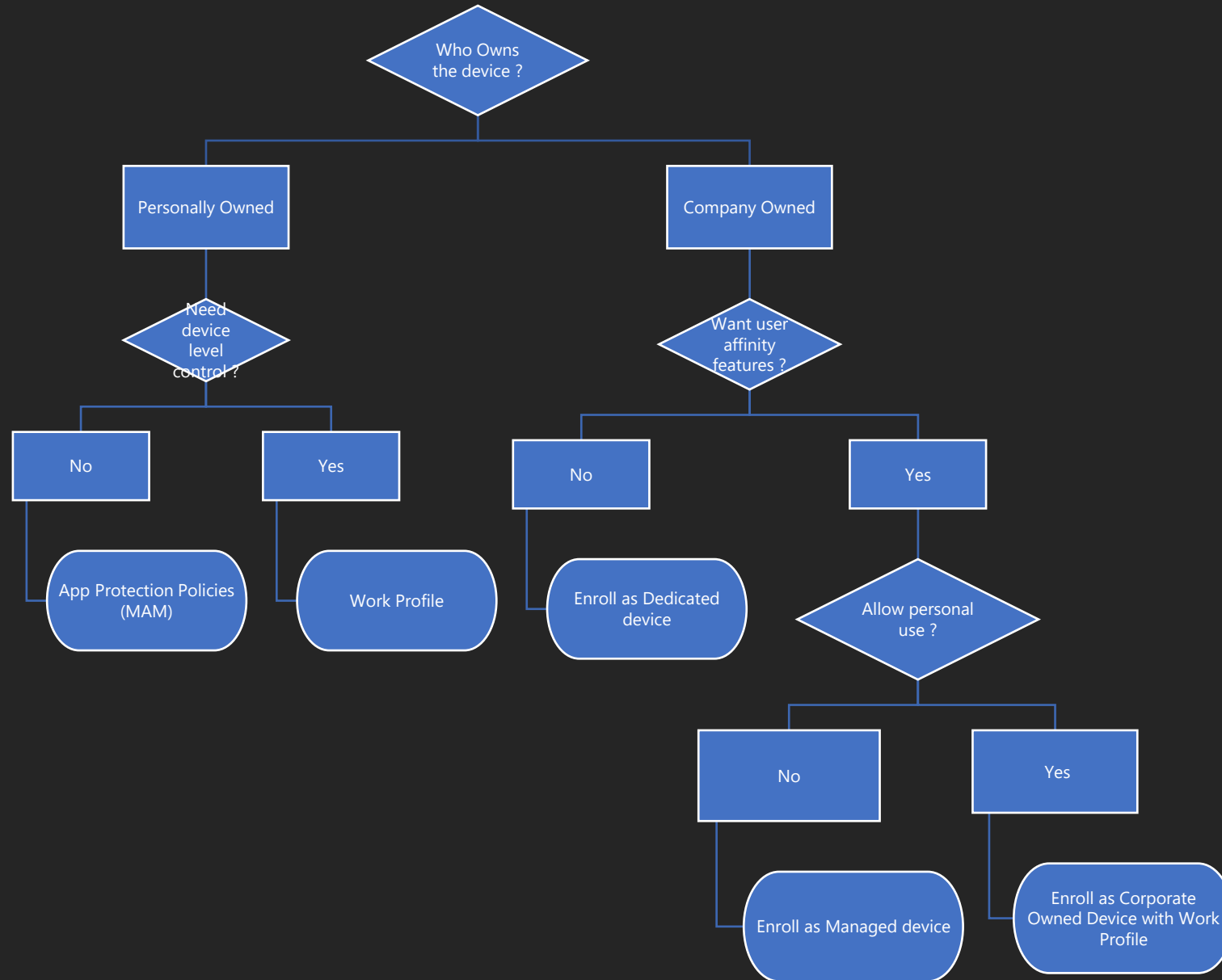


Fully Managed



Corporate owned device with work profile





Android Enterprise

- Framework from Google
- Certified Devices
- Updates
- Zero Touch



















Certified devices

Devices

Android Enterprise Recommended knowledge worker and rugged devices.

🔍 Search Devices

FILTERING 24 OF 430 SORT BY RECENCY ▾

  Motorola moto g stylus (2022) <input type="checkbox"/> COMPARE	  POCO M4 Pro <input type="checkbox"/> COMPARE	  Nokia G21 <input type="checkbox"/> COMPARE	  Nokia G11 <input type="checkbox"/> COMPARE
  Samsung Galaxy Tab S8+ 5G	  Samsung Galaxy Tab S8 Ultra 5G	  Samsung Galaxy Tab S8 5G	  Xiaomi Redmi Note 11S

Reactive

We bought X devices for users Y, we need to manage them now.

Proactive

- We want to do X for users Y, what types of device should we use ?

Corporate owned devices

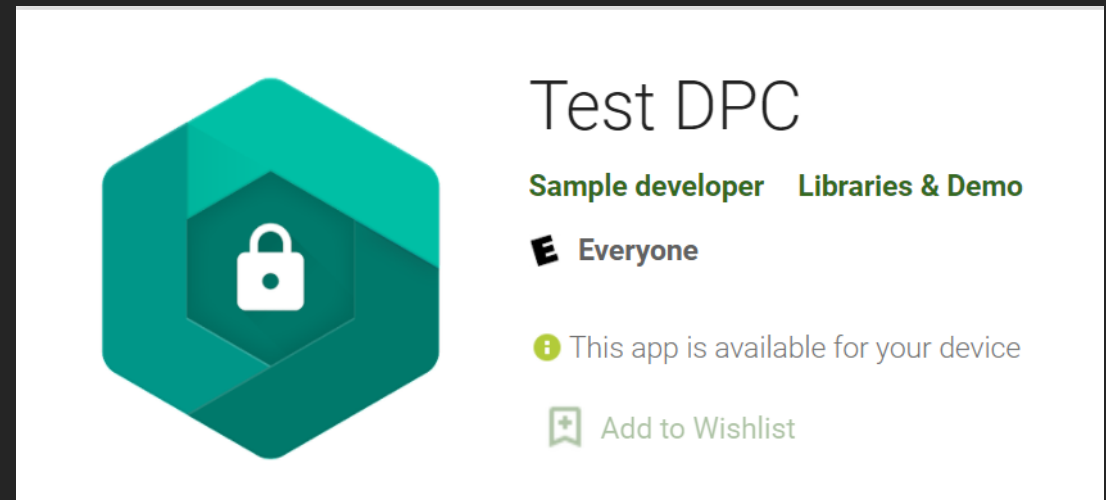
- Have a list of supported Android makes and models
- Categorize users and their needs
- Treat unsupported devices as BYOD

Over the air updates (OTA)

- Each manufacturer handles them differently.
- Samsung has their own product E-fota to handle System updates
- Zebra has their own way

Device Policy Controller

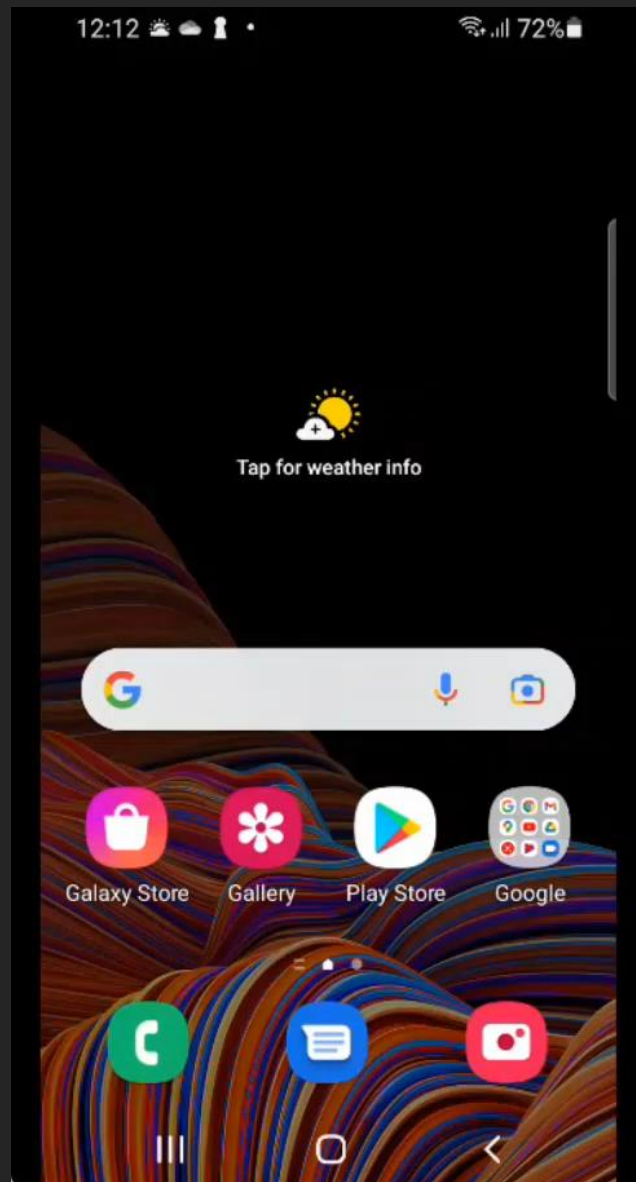
- Test policies locally on the device
- No need for MDM enrollment



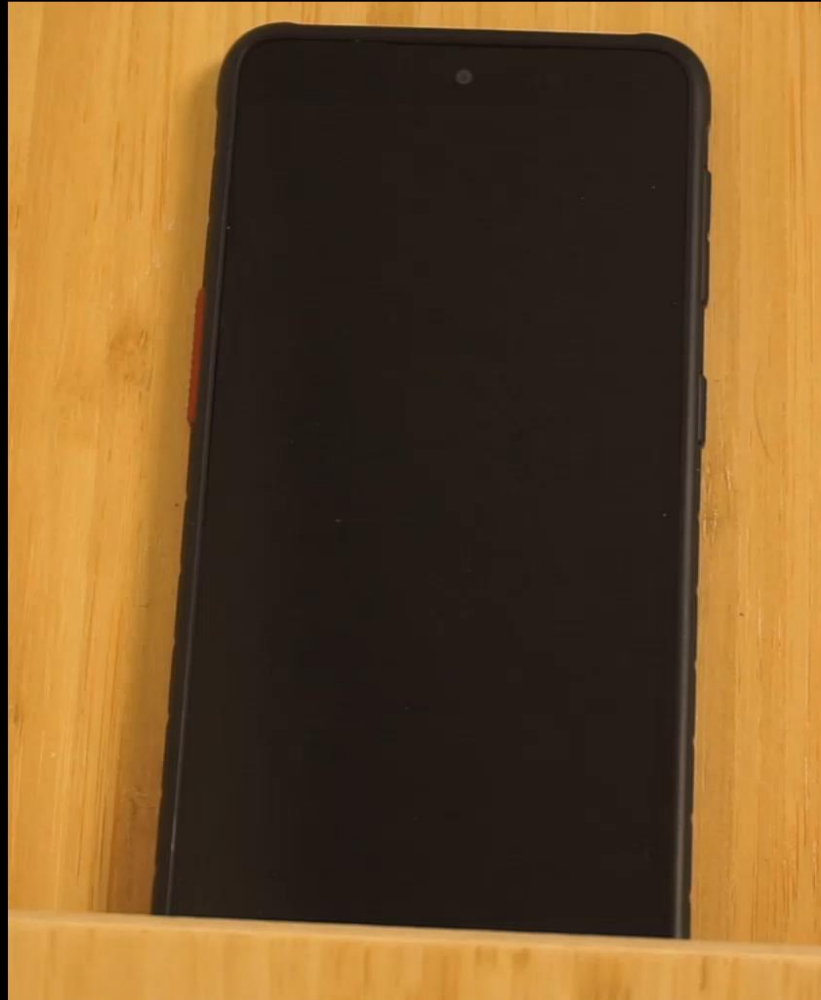
Demo



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afw#testdpc



Android version / API Level

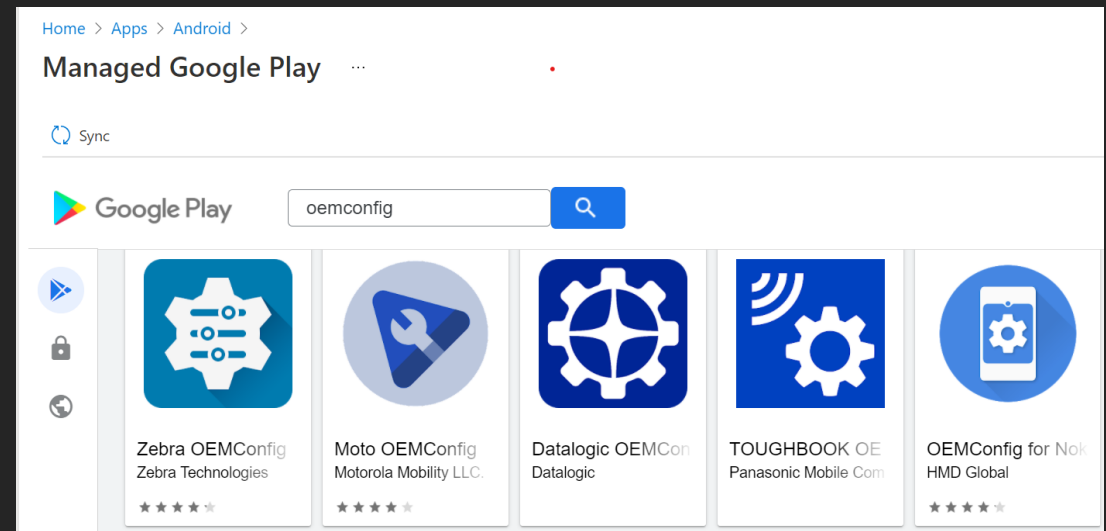
Android Version	API Level
Android 12L	32
Android 12	31
Android 11	30
Android 10	29
Android 9 (Pie)	28
Android 8.1 (Oreo)	27
Android 8 (Oreo)	26

Link

- <https://source.android.com/setup/start/build-numbers>

OEMConfig

- Each manufacturer has their own OEMConfig (almost)
- Samsung & Zebra has some of the best documentation and capabilities.
- Lenovo, Nokia and many more not so much...



Demo



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Dynamic Azure AD groups

- Traditional way for device assignment
- The only thing we had for a long time

Issues

- Inconsistent update cycle

Use filters to speed device targeted assignments

[Home](#) > [Devices](#) > [AE Dedicated Shared](#) >

Edit AE Dedicated Shared ...

1 Rules 2 Review + save

You can use the rule builder or rule syntax text box to create or edit the filter rule. [Learn more](#) ↗

And/Or	Property	Operator	Value
<input type="checkbox"/>	enrollmentProf... <input type="checkbox"/>	<input type="checkbox"/> Equals <input type="checkbox"/>	AE Dedicated Shared

[+ Add expression](#)

Rule syntax [Edit](#)

```
(device.enrollmentProfileName -eq "AE Dedicated Shared")
```

Link

- <https://docs.microsoft.com/en-us/mem/intune/fundamentals/filters>

Demo



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Android Enterprise Academy



Link

- <https://info.androidenterprise.training/>

Key take away

- Users phones are like their pets
- Have a supported list of devices and everything else treat as BYOD.
- Keep up to date with Android versions
- Filters are great
- Try to be proactive instead of reactive

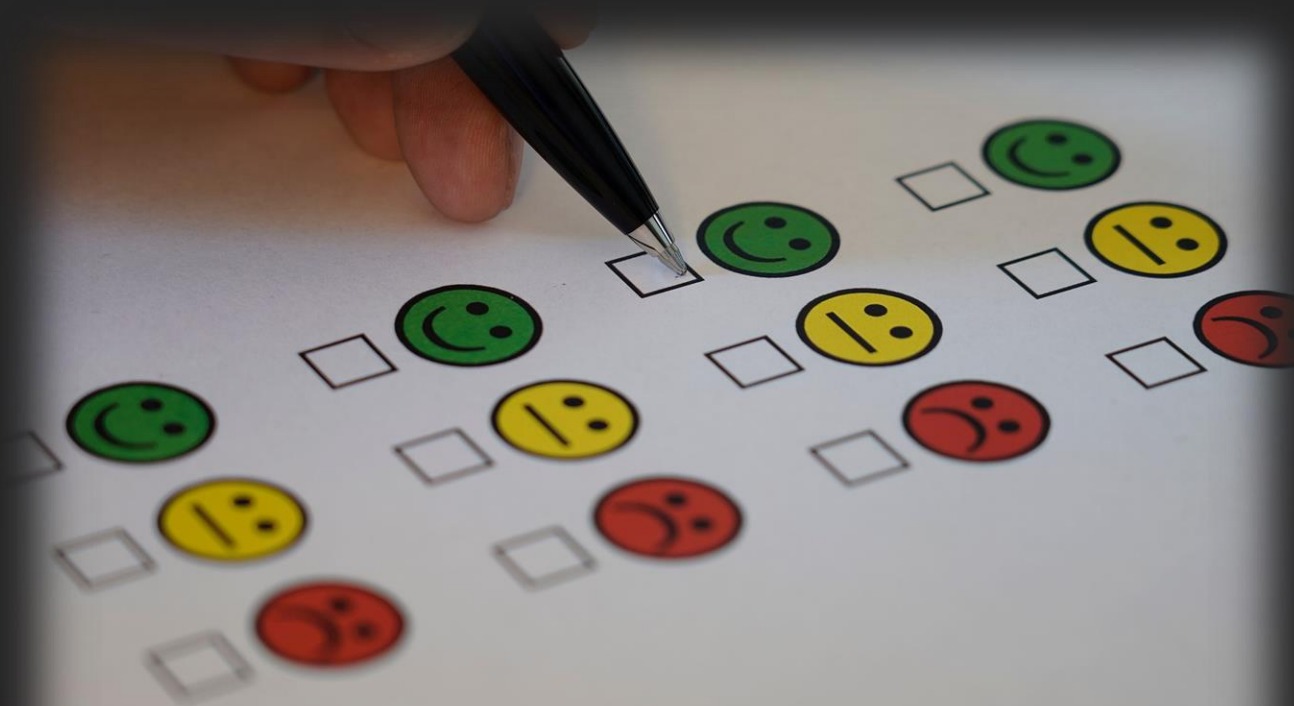
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Thank you!

Please remember to fill out the evals!



<https://stream.nordicvirtualsummit.com/feedback>