Bridging the FM-IT Divide:
Addressing Security and Manageability Concerns with MDEP

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FM TECHWEEK
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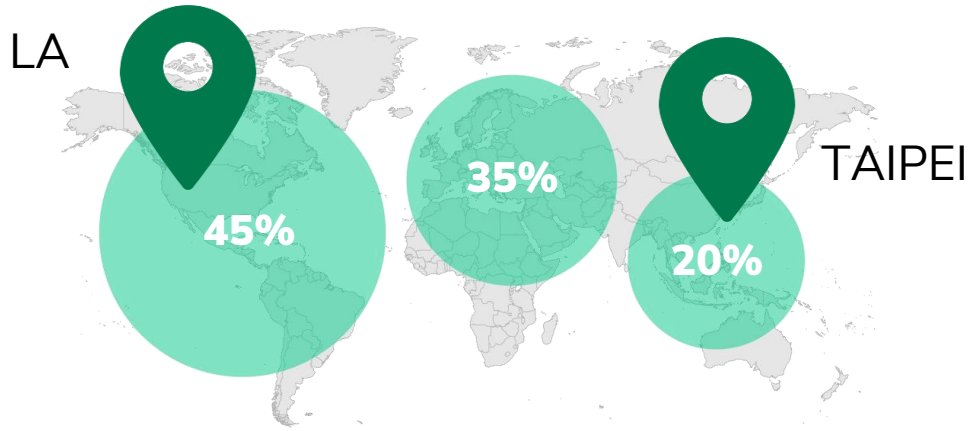
We Build and License **Enterprise-grade Devices** for Solving Business Problems

1,000,000's
Devices

20+
Years

70+
Countries



Agenda

- The Evolving Role of Facility Managers in Tech
- FM's IoT Involvement
- Challenges with Android in Enterprise Environments – Even for Microsoft
- What is MDEP and How to FMs can Take Advantage of It

The Evolving Role of Facility Managers in Tech

FMs are increasingly involved in specifying and managing smart building technologies

The use of IoT devices in facilities management is projected to grow at a CAGR of 20% through 2026

35% of facilities globally have adopted Building Management Systems (BMS) to control HVAC and lighting

The global facilities management automation market is expected to reach $46 billion by 2028, with a CAGR of 9.6%

The global smart lighting market within facilities management is forecasted to grow at a CAGR of 15% from 2023 to 2028

The Importance of Security in FM

Smart Thermostat Breach

A hacker exploited vulnerabilities in smart thermostats to manipulate warehouse temperatures, resulting in over $250,000 in damages.

Google Australia's BMS Hack

Security researchers accessed Google Australia's Building Management System due to unpatched vulnerabilities, highlighting risks in connected building systems.

Mirai Botnet Resurgence

Insecure IoT devices like DVRs (digital video recorders) and routers were compromised to launch massive DDoS attacks, disrupting services of major ISPs.

When IoT Security Fails: Real-World Consequences for Facility Managers

- Reference: IoT Security Failures: Case Studies from Recent Cyber Attacks

FM’s IoT Involvement

Room Control

Room Booking Panel

Digital Signage

Environment Control Panel

Sensors

Smart Meeting

- Hybrid meetings
- Enhanced experience & productivity

Smart Workplace

- Flexible work
- Enhanced experience & productivity

Smart Building

- Access control
- Comfort & efficiency

Conference Room Displays

Hotdesking

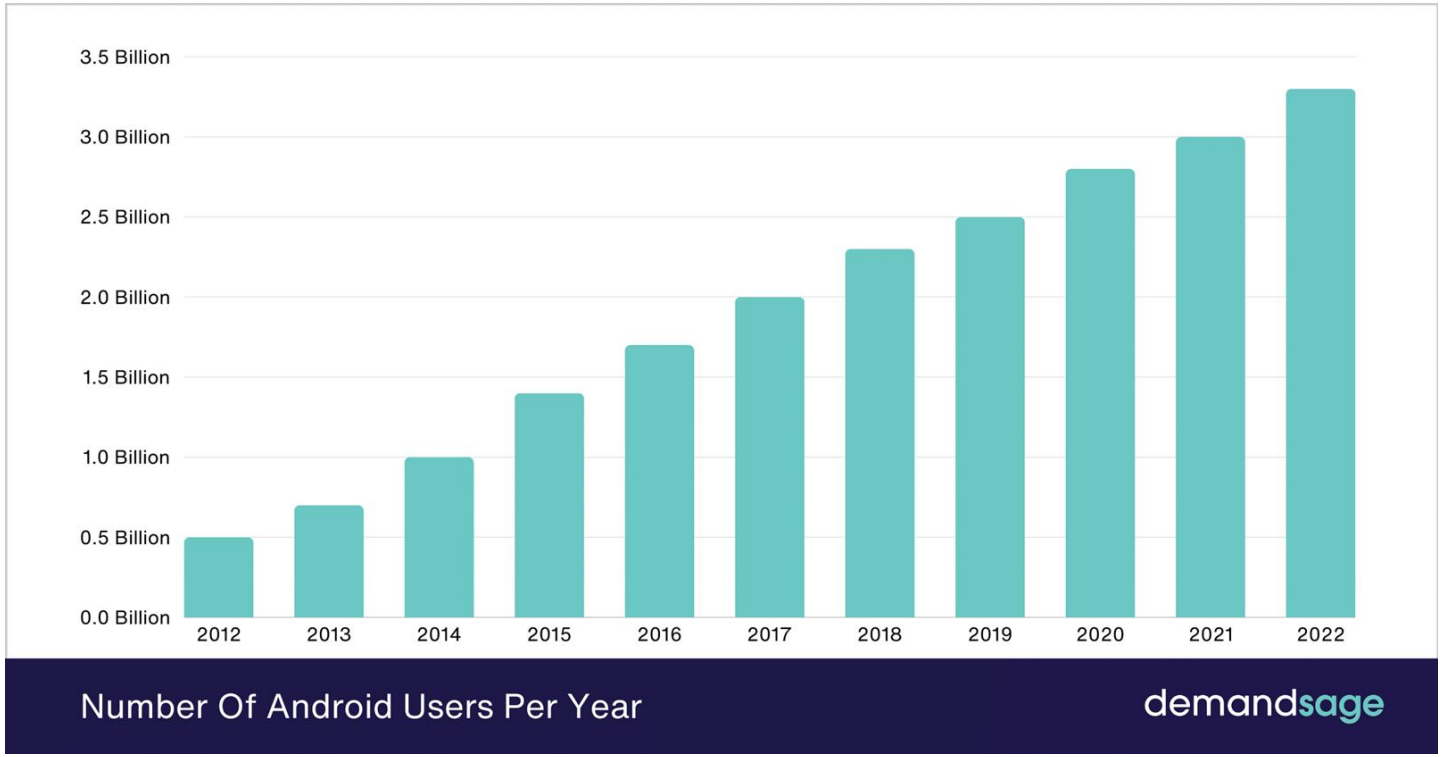
Wayfinding Kiosk

Visitor Management Kiosk

Smart Intercom

Android’s Prevalence in IoT Devices

- Android is widely used in various IoT devices beyond smartphones.
- As of 2025, there are approximately **3.3 billion** Android OS users worldwide, capturing 71.85% of the mobile OS market.



Challenges with Android in Enterprise Environments – Even for Microsoft

Fragmentation Issues: Microsoft faced challenges with inconsistent Android versions across OEMs, complicating updates and security management.

Security Concerns: Microsoft's internal IT and security teams were hesitant to deploy Android devices due to security vulnerabilities.

Introduction of MDEP: To address these challenges, Microsoft developed the Microsoft Device Ecosystem Platform (MDEP), a customized Android version enhancing device interoperability and security.

Takeaway: MDEP aims to provide Facility Managers with a standardized, secure platform for managing Android-based devices in enterprise settings.

Introducing MDEP: Microsoft Device Ecosystem Platform

- **Key Point**: MDEP is Microsoft's initiative to provide a standardized, secure, and manageable Android platform for enterprise devices.
- **Announcement**: At InfoComm 2025, Microsoft announced expansion of coverage to include **interactive and non-interactive displays**. IAdea is named as the leading partner.

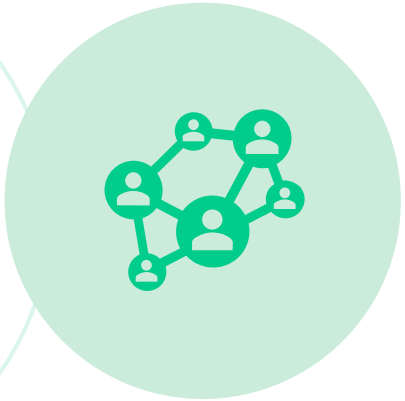
Benefits of MDEP for Facility Managers

Enhanced **security** features tailored for enterprise needs.

Simplified **device management** and deployment.

Seamless **integration** with existing Microsoft services and infrastructure.

How to FMs can Take Advantage of MDEP



COLLABORATE WITH IT DEPARTMENTS TO GET FAMILIAR WITH MDEP BENEFITS.

IDENTIFY DEVICES THAT CAN BE ENHANCED WITH MDEP'S FEATURES.

PLAN FOR PHASED INTEGRATION OF MDEP-CERTIFIED DEVICES.

Conclusion & Call to Action

- **Summary**: Bridging the gap between FM and IT is essential for secure and efficient facility operations. MDEP offers a viable solution to address these challenges.
- **Call to Action**: Consider evaluating your facility's device ecosystem and explore how MDEP-certified devices can enhance security and manageability.

- **QUESTIONS**? Ask IAdea.

Thank you

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