## Android Device Longevity

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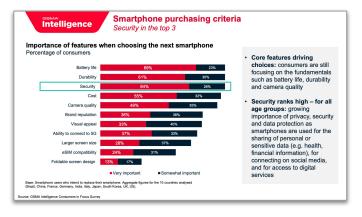
# Why should we care about longevity?

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### 1. Users purchase longevity



### 2. Regulators will enforce it



- Long-term software support (>5 yrs)
- Timely security updates (<4 mo) upgrades (<6 mo)
- Comprehensive supply chain security (SBOM)
- Standardized vulnerability management

### What are the top issues making longevity hard?

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### Based on our experience, surveys and <u>livestream</u> <u>discussions</u>

- AOSP modifications and binary-only BSPs
- Security updates and OS upgrades
- Long-term support beyond the SoC
- Upcoming regulation

### What can we do about AOSP modifications and binary-only BSPs?

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### **Potential solutions to discuss**

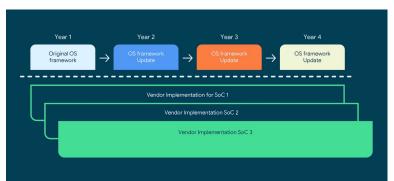
1. Develop for longevity and use Treble





With Treble

2. Select SoCs that use the Vendor Interface



# What can we do about security updates and OS upgrades?

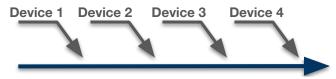
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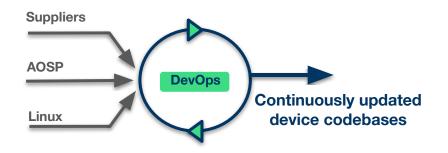
### **Potential solutions to discuss**

1. Adopt Trunk Stable software development



Trunk-based development for all SKUs and Android versions

- 2. Continuously integrate upstream projects
- Note: You might need support from suppliers to do this



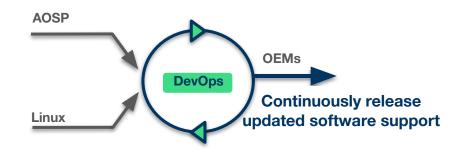
### What can we do about long-term support beyond the SoC?

### **Potential solutions to discuss**

1. Supply chain longevity is equally important



2. For suppliers: Continuously release updated code



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# What can we do about upcoming regulation?

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### **Potential solutions to discuss**

1. Become familiar with upcoming regulation

Start with:

- UK PSTI, in effect
- EU EcoDesign, starting 20th June 2025
- EU CyberResilianceAct, starting 2026

- 2. Discuss interpretation and implementation
- Start with your in-house counsel
  Use the cheatsheet in the appendix

### Appendix: Overview of upcoming regulation affecting device longevity

Theme	Requirement	Regulation	Status	Applies from/to	Commentary
Uniform length of software support	Must provide transparency regarding minimum length of software support	<u>UK PSTI</u>	In effect	29 Apr 2024/All internet connected	- UK publicly endorsed EU CRA and laid foundation for follow-ups
	Must provide 5 years of security updates and OS upgrades after the last device sale	<u>EU EcoDesign</u>	Approved	20 June 2025 / Smartphone & Tablets	- Over 7 years for some models
	Must provide 5 years of security updates or the intended lifetime of the device	EU CyberResilianceAct	To be approved	Expected approval EoY 2024 followed by a transition period /All internet connected	- Over 10 years for some categories
Frequent software updates	Must provide security updates within 4 months of public disclosure	<u>EU EcoDesign</u>	Approved	20 June 2025 / Smartphone & Tablets	
	Must provide OS upgrades within 6 months of public release	EU EcoDesign	Approved	20 June 2025 / Smartphone & Tablets	- Must not introduce performance regressions without user consent
	Must provide timely security updates	EU CyberResilianceAct	To be approved	Expected approval EoY 2024 followed by a transition period /All internet connected	- To follow EU EcoDesign wording
Thorough supply chain security	Must provide a Software Bill of Materials for devices used by the US government	US Executive Order	In effect	12 May 2021 / Smartphone & Tablets	
	Must provide a Software Bill of Materials for all devices	EU CyberResilianceAct	To be approved	Expected approval EoY 2024 followed by a transition period /All internet connected	
Uniform processes and certification	Must report vulnerabilities following a strict disclosure process	EU CyberResilianceAct	To be approved	Expected approval EoY 2024 followed by a transition period /All internet connected	
	Must certify that the device uses best practices	EU CyberResilianceAct	To be approved	Expected approval EoY 2024 followed by a transition period /All internet connected	- Includes provisions for certifiers and software updates undertakers

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