

# Build Your Android Stack on Intel: Validated AOSP Base BSP



Intel now ships a validated AOSP Base Board Support Package for x86 client SoCs through an open GitHub distribution — giving OSVs/ISVs a clean foundation and OEMs a single hardware line for Windows, Linux, and Android.

Why this matters now -retail, hospitality, and kiosk customers are no longer asking whether their next device will run Android — they're asking which silicon runs it best. For years, OEMs and OSVs faced a difficult choice:

- Building and validating a second hardware platform to support Android designs
- Skip those designs and opportunities altogether.

Intel helps remove that tradeoff. With a validated Android Base BSP released openly on GitHub, the same Intel hardware line can ship Windows, Linux, and Android with :

- One design path
- One validation cycle
- One support motion

## What Intel Ships

A validated AOSP Base BSP for Intel x86 client SoCs, openly distributed at [github.com/edge-aosp-bsp](https://github.com/edge-aosp-bsp).

Platforms Currently available - 14th Gen Intel® Core™ Processor , Intel® Processor N-series

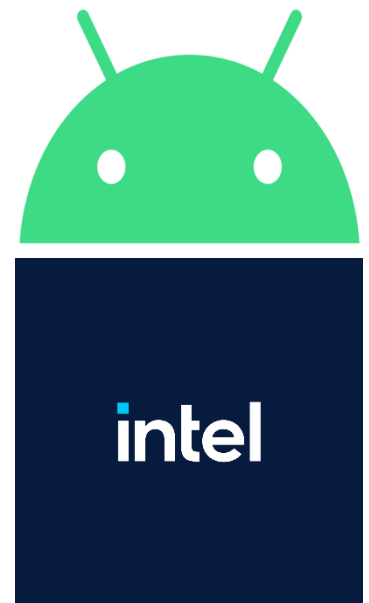
Android Version - 15, 16

Status - Feature-complete, externally consumable

On the roadmap - Additional current and future platforms

The package includes key platform elements in one place, including:

- Boot and bring-up baseline
- Graphics, audio, networking, and sensor enablement
- Security hardware abstraction layers (HALs)
- Build manifests
- Get-started documentation
- Validation artifacts



## How the Stack Divides – and Why That Matters to OSVs

Intel's position is deliberate: Intel provides the validated platform baseline, while partners productize complete customer solutions.

| Base BSP                                | Intel | Validated AOSP BSP on edge-aosp-bsp GitHub                         |
|-----------------------------------------|-------|--------------------------------------------------------------------|
| Productized BSP, fleet mgmt, deployment | OSV   | Customer-deployable Android stack                                  |
| Hardware integration                    | OEM   | POS/kiosk/signage devices & peripherals (Barcode Scanner, Printer) |
| Applications                            | ISV   | Retailer-facing apps                                               |

If you're an OSV, this is the enabler you've been waiting for. You start from a clean, validated AOSP base — not a fork, not a private branch, not a 9-month bring-up project. Pull from GitHub, layer your device management, fleet provisioning, OTA, and policy engine on top, productize, and ship. Intel provides the platform baseline; you develop the customer-facing stack.

Two patterns we're already seeing in the market:

- OSVs building productized Android distributions on top of the Intel Base BSP for retail device portfolios
- OSVs layering MDM, security policy, and fleet operations so OEMs can ship a managed-from-day-one device

### What's in it for OEMs

1. One hardware line, three operating systems. The same Intel SoC, board design, BOM, and field-service kit serve your Windows, Linux, and Android SKUs. You stop maintaining a parallel hardware platform just to chase Android deals.
2. Validated upstream, supported downstream. Intel validates the BSP against CTS, VTS, and STS. Your OSV partner inherits a clean base — meaning fewer integration surprises, fewer escalations, and fast time-to-market.
3. A trusted x86 software ecosystem. Decades of x86 tooling — compilers, debuggers, profilers, virtualization, container support, security infrastructure — carry into your Android design. Your software stack doesn't restart from zero.

### What's available today — and what's next

- Download: [github.com/edge-aosp-bsp](https://github.com/intel/edge-aosp-bsp) — manifest, get-started guide, release artifacts, validation reports.
- Integrate: Work with a productizing OSV or build directly against the Base BSP if you have in-house Android systems engineering.
- Plan ahead: Android 17 enablement is in active bring-up for next-generation Intel client platforms

### The Bottom Line

Android on Intel is no longer a project — it's a product path. A validated AOSP Base BSP, openly distributed, with a clear OSV/OEM productization model and a roadmap that already names two platforms. If you're an OSV looking for a clean Android foundation on x86, clone the repo today: [github.com/edge-aosp-bsp](https://github.com/intel/edge-aosp-bsp). To learn more visit us here [Android 16 Base BSP Reference Release | Edge Platforms](#) or If you're an OEM evaluating an Android SKU, engage your Intel account team — we'll connect you to OSVs already shipping productized stacks on this BSP.

One Intel platform. Three operating systems. Your Android line, productized.



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