Wireless Casting SDKs: Technical Overview

Integrate wireless casting into your Android and Windows devices with DisplayNote's SDKs. Built for performance, reliability, and security, we make it easy for your dev team to deliver results efficiently. Trusted globally with proven success across markets, our technology simplifies integration and accelerates your product roadmap.

SDK Breakdown

AirPlay SDK

Effortless casting from Apple devices (iOS, iPadOS, macOS).

- 60fps with 65ms latency for real-time performance

Miracast SDK

Direct casting from Windows and Android devices.

- Real-time touchback functionality (Windows)
- 60fps with 63ms latency

Google Cast SDK

Casting from Android, Chrome browsers, and Chromebooks.

- 60fps with 64ms latency for smooth streaming

WebRTC SDK

Real-time browser-based streaming.

- 130ms latency with cross-network compatibility

Technical Highlights

- **Performance optimisation:**
  Adaptive bitrate streaming and error correction ensure reliability
- **Resolution:**
  - Latency measured end-to-end on 1080p streams
  - Supports **up to 4K resolution** (hardware dependent)
- **Security:**
  Built-in secure protocols (SRT, DTLS, and TLS fallback)
- **Multi-Network Support:**
  Seamless operation across network environments

Flexible Integration Options

Each of our SDKs offers three integration options, allowing you to tailor the solution to your technical requirements:

Option 1: In-House Decode

Take full control with raw, coded streams and essential metadata (e.g., audio type, codec). This option provides maximum flexibility, enabling your team to process data exactly how you want.

Option 2: DisplayNote Decoders

Use our optimized decoders to simplify integration and enhance performance. This option is ideal for improving existing setups, such as integrating our decoders into your current AirPlay implementation, without significant development overhead.

Option 3: Combined Solution

Combine the raw stream with DisplayNote Decoders for a complete, end-to-end solution. This is the approach we use in our own software, so you can be sure it's maintained with the highest standards possible.

Integration & Support

We're on hand to provide integration assistance, ongoing support, and maintenance for your SDK deployments.

For additional details about our SDKs and technical resources, contact us at support@displaynote.com.