

SIM Swap API

Device Swap API

# China Mobile's Comprehensive Phone Number & SIM Card Solution fights Mobile Fraud

Case study for safeguarding mobile networks against SIM card fraud using CAMARA standardised Sim Swap API and Device Swap API.

[View API Descriptions](#)

## Business Problem

A growing new black market for unlocked mobile phones is emerging in China, fraudsters exploit unlocked mobile phones to hide their identity and bypass monitoring. Legacy detection methods fail to identify device swaps with unlocked phones.

## Impact

Initial commercial deployments across 16 provinces have shown outstanding results: in one city after more than one year of operation over 1.4 million SIM cards with mismatched ownership have been identified, and fraud cases involving mismatched ownership have decreased by 79%.

## Technical Solution

China Mobile's solution combines device swap data via the CAMARA Device Swap API with SIM Swap data via the CAMARA SIM Swap API to enable inconsistencies to be identified and prevent potential fraud. When a SIM is inserted into a new device, users now receive a pop-up notification prompting them to complete identity verification.

## Value

China Mobile's solution demonstrates both social responsibility and commercial viability. Real-time detection accelerates anti-fraud response and is projected to prevent 2.49 million yuan in losses per thousand users, while recovering over 3 million yuan in annual revenue for the operator.

*"We're proud to help protect our customers and the wider community—this solution is making fraud prevention faster, smarter, and more effective for everyone."*

**China Mobile**

