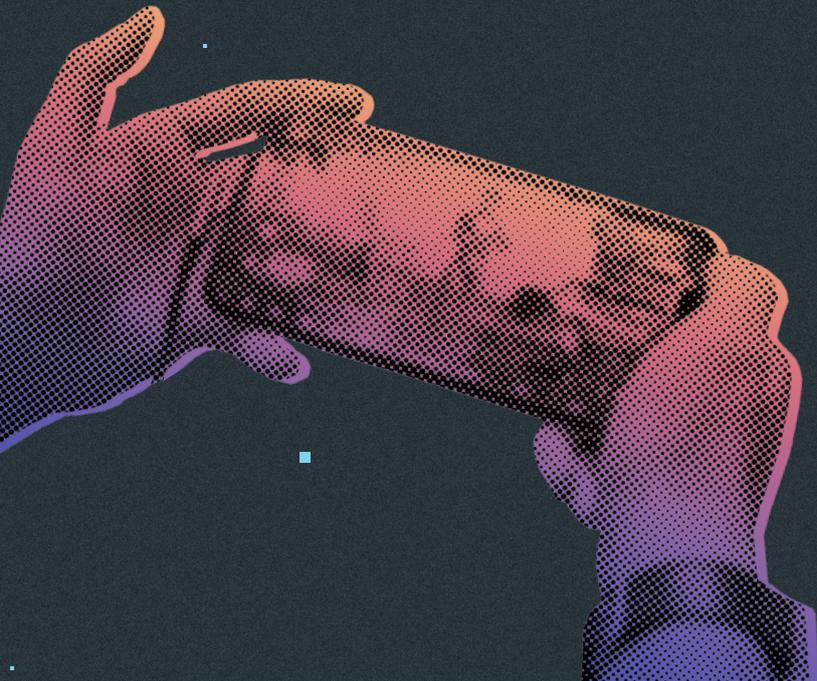


# Mobile Gaming Security

Protect valuable revenue streams and maintain user trust with state-of-the-art app security



Mobile games are popular ways to relax and find a competitive outlet. These games also provide their makers with valuable revenue streams. In fact, mobile games accounted for a whopping **72% of overall mobile app spending in 2020**. But many mobile games are not sufficiently secured and are at risk for security breaches and financial losses.



|  <b>BAD ACTORS CAN:</b> |  |
|---|--|
|                          | <b>Cheat</b> & make it easier for others to cheat                          |
|                          | Build & distribute <b>tweaks</b>   |
|                          | Undermine in-app <b>revenue streams</b> , such as ads or microtransactions |
|                          | Access sensitive user <b>information</b>                                   |
|                          | & <b>more</b>  |

With tens of billions of dollars on the line,  apps makers **cannot afford to ignore security.**





# The solution: Guardsquare

## Protect valuable revenue streams:

Raises the bar against cheating, creating fake apps, diverting revenue streams, or otherwise defrauding app makers of hard-earned income. Code hardening makes it difficult to take advantage of apps.

## Defend against the most common mobile risks:

Reverse engineering and tampering are two of the top 10 most prevalent security risks, according to OWASP. Guardsquare's application shielding technology protects against them.

## Build user trust and loyalty:

Seamlessly deploy security best practices to both protect your gaming and entertainment apps and to provide users with a sense of fairness, fun, and trust in your apps.



## iOS, Android and multi-platform Unity support

### OUR APPROACH:

#### Code hardening:

Hardening the code at various levels throughout the application protects against static analysis. Multiple layers of obfuscation make code resistant to both automated and manual analysis.

#### Runtime Application Self-Protection (RASP):

RASP mechanisms monitor the integrity of the apps and their environment in real time. When a threat arises, the apps can terminate the attacker's session, display security notifications to the user, and more. RASP also ensures communication between the mobile app and server is secure.

#### Built for video games:

Guardsquare products are built for the needs of the video gaming industry.

**Video games have extremely low performance impact tolerance.** Guardsquare products provide effective, out-of-the-box default configurations and allow for protection tuning that enables you to avoid performance bottlenecks without compromising security.

**Video games are under constant scrutiny of reverse-engineers.** Unprotected games usually get hacked on day 0. However, attacks sometimes take place weeks after the original game release. Even the strongest protections eventually get defeated.

**Guardsquare products acknowledge this and provide a high degree of polymorphism in mobile game protection.** With every new release, the code hardening, runtime checks, signature, quantity, and position are changed – effectively resetting the clock on attackers.

**Video games are often built using commercial game engines.** Unity, one of the most popular gaming engines for mobile, adds metadata in your game application that reverse-engineers can use. Guardsquare DexGuard and iXGuard protect the Unity metadata file so that attackers cannot leverage this information to reverse-engineer your game.

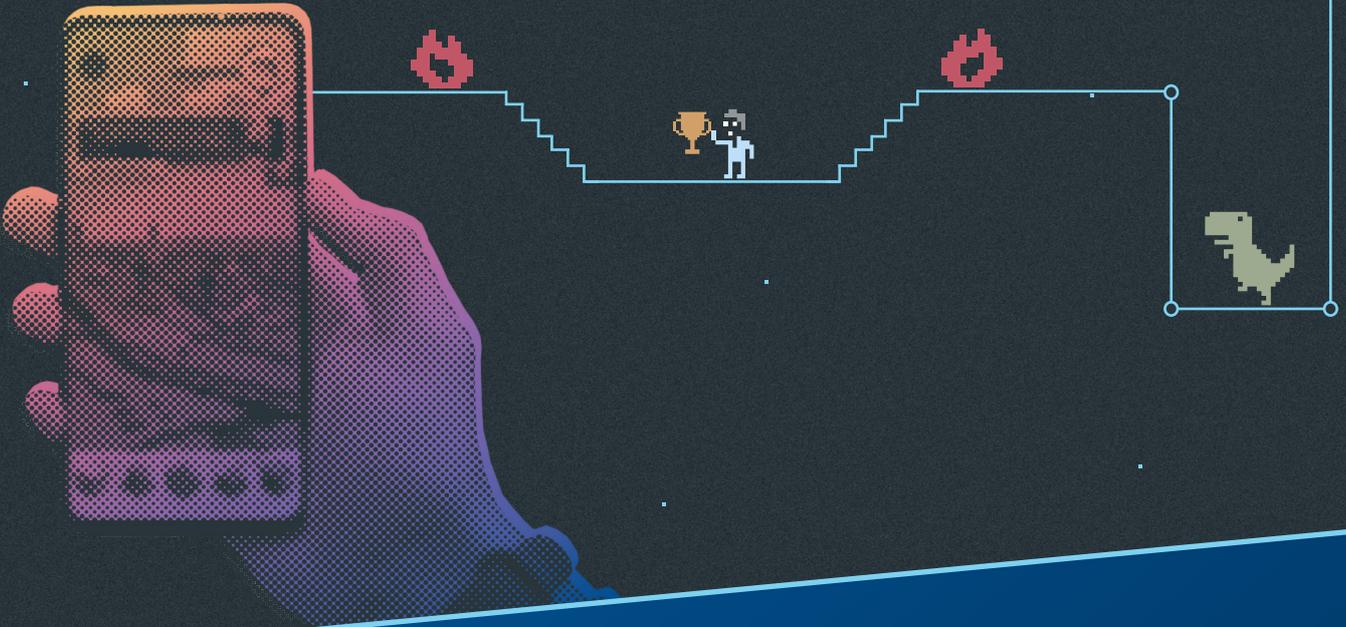


# Our products



Verified Solution

| DexGuard   | iXGuard   | ThreatCast  |
|--|---|---|
| Android  | iOS   | Android  iOS  |
| <ul style="list-style-type: none"> <li>Code hardening</li> <li>Runtime self-protection</li> <li>Protection of native &amp; cross-platform apps</li> <li>App optimization</li> <li>Unity support</li> </ul> | <ul style="list-style-type: none"> <li>Code hardening</li> <li>Runtime self-protection</li> <li>Protection of native &amp; cross-platform apps</li> <li>iOS app optimization maintained</li> <li>Unity support</li> </ul> | <ul style="list-style-type: none"> <li>Mobile app security console for real-time threat monitoring</li> <li>Get actionable insights</li> <li>Integrate security into the development lifecycle</li> </ul> |



The creators of ProGuard®

Want more information?  
Reach out to **schedule a demo**

[Connect with an Expert](#)

**GUARDSQUARE**  
Mobile application protection